


| STATE OF UTAH<br>DEPARTMENT OF NATURAL RESOURCES<br>DIVISION OF OIL, GAS AND MINING  |           |                  |  |   |  | FORM 3<br>AMENDED REPORT <input type="checkbox"/>  |                             |          |       |        |
|--|-----------|------------------|--|---|--|--|-----------------------------|----------|-------|--------|
| <b>APPLICATION FOR PERMIT TO DRILL</b>   |           |                  |  |   |  | 1. WELL NAME and NUMBER<br>GMBU 2-36-8-17H   |                             |          |       |        |
| 2. TYPE OF WORK<br>DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/> |           |                  |  |   |  | 3. FIELD OR WILDCAT<br>MONUMENT BUTTE  |                             |          |       |        |
| 4. TYPE OF WELL<br>Oil Well <input type="checkbox"/> Coalbed Methane Well: NO <input type="checkbox"/>   |           |                  |  |   |  | 5. UNIT or COMMUNITIZATION AGREEMENT NAME<br>GMBU (GRRV)   |                             |          |       |        |
| 6. NAME OF OPERATOR<br>NEWFIELD PRODUCTION COMPANY   |           |                  |  |   |  | 7. OPERATOR PHONE<br>435 646-4825  |                             |          |       |        |
| 8. ADDRESS OF OPERATOR<br>Rt 3 Box 3630 , Myton, UT, 84052   |           |                  |  |   |  | 9. OPERATOR E-MAIL<br>mcrozier@newfield.com  |                             |          |       |        |
| 10. MINERAL LEASE NUMBER<br>(FEDERAL, INDIAN, OR STATE)<br>ML-44305  |           |                  | 11. MINERAL OWNERSHIP<br>FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>       |   |  | 12. SURFACE OWNERSHIP<br>FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> |                             |          |       |        |
| 13. NAME OF SURFACE OWNER (if box 12 = 'fee')  |           |                  |  |   |  | 14. SURFACE OWNER PHONE (if box 12 = 'fee')  |                             |          |       |        |
| 15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')   |           |                  |  |   |  | 16. SURFACE OWNER E-MAIL (if box 12 = 'fee')   |                             |          |       |        |
| 17. INDIAN ALLOTTEE OR TRIBE NAME<br>(if box 12 = 'INDIAN')  |           |                  | 18. INTEND TO COMMINGLE PRODUCTION FROM<br>MULTIPLE FORMATIONS<br>YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/> |   |  | 19. SLANT<br>VERTICAL <input type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input checked="" type="checkbox"/>                               |                             |          |       |        |
| 20. LOCATION OF WELL   |           | FOOTAGES         |  | QTR-QTR   | SECTION  | TOWNSHIP   | RANGE                       | MERIDIAN |       |        |
| LOCATION AT SURFACE  |           | 649 FNL 1667 FEL |  | NWNE  | 36   | 8.0 S  | 17.0 E                      | S        |       |        |
| Top of Uppermost Producing Zone  |           | 649 FNL 1667 FEL |  | NWNE  | 36   | 8.0 S  | 17.0 E                      | S        |       |        |
| At Total Depth   |           | 100 FSL 1250 FWL |  | SWSW  | 36   | 8.0 S  | 17.0 E                      | S        |       |        |
| 21. COUNTY<br>UINTAH   |           |                  | 22. DISTANCE TO NEAREST LEASE LINE (Feet)<br>100   |   |  | 23. NUMBER OF ACRES IN DRILLING UNIT<br>640  |                             |          |       |        |
|  |           |                  | 25. DISTANCE TO NEAREST WELL IN SAME POOL<br>(Applied For Drilling or Completed)<br>1320   |   |  | 26. PROPOSED DEPTH<br>MD: 11150 TVD: 6107  |                             |          |       |        |
| 27. ELEVATION - GROUND LEVEL<br>5045   |           |                  | 28. BOND NUMBER<br>B001834   |   |  | 29. SOURCE OF DRILLING WATER /<br>WATER RIGHTS APPROVAL NUMBER IF APPLICABLE<br>437478   |                             |          |       |        |
| <b>Hole, Casing, and Cement Information</b>  |           |                  |  |   |  |  |                             |          |       |        |
| String   | Hole Size | Casing Size      | Length   | Weight  | Grade & Thread   | Max Mud Wt.  | Cement                      | Sacks    | Yield | Weight |
| Surf   | 12.25     | 8.625            | 0 - 300  | 24.0  | J-55 ST&C  | 8.3  | Class G                     | 122      | 1.17  | 15.8   |
| Prod   | 7.875     | 5.5              | 0 - 6565   | 20.0  | N-80 LT&C  | 9.0  | Premium Lite High Strength  | 221      | 3.53  | 11.0   |
|  |           |                  |  |   |  |  | 50/50 Poz                   | 290      | 1.24  | 14.3   |
| P2   | 7.875     | 4.5              | 6565 - 11150   | 11.6  | P-110 LT&C   | 9.0  | No Used                     | 0        | 0.0   | 0.0    |
| <b>ATTACHMENTS</b>   |           |                  |  |   |  |  |                             |          |       |        |
| <b>VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES</b>  |           |                  |  |   |  |  |                             |          |       |        |
| <input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER   |           |                  |  |   | <input checked="" type="checkbox"/> COMPLETE DRILLING PLAN                 |  |                             |          |       |        |
| <input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)   |           |                  |  |   | <input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER |  |                             |          |       |        |
| <input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)   |           |                  |  |   | <input checked="" type="checkbox"/> TOPOGRAPHICAL MAP                      |  |                             |          |       |        |
| NAME Mandie Crozier  |           |                  |  | TITLE Regulatory Tech   |  |  | PHONE 435 646-4825          |          |       |        |
| SIGNATURE  |           |                  |  | DATE 11/17/2011   |  |  | EMAIL mcrozier@newfield.com |          |       |        |
| API NUMBER ASSIGNED<br>43047521900000  |           |                  |  | APPROVAL<br><br>Permit Manager |  |  |                             |          |       |        |

**Newfield Production Company**  
**GMB 2-36-8-17H**  
**NW/NE Section 36, T8S, R17E**  
**Uintah County, UT**

**Drilling Program**

**1. Formation Tops**

|                     |                         |
|---------------------|-------------------------|
| Uinta               | surface                 |
| Green River         | 1,685'                  |
| Garden Gulch member | 3,923'                  |
| TD                  | 6,107' TVD / 11,150' MD |

**2. Depth to Oil, Gas, Water, or Minerals**

|                           |                 |         |
|---------------------------|-----------------|---------|
| Base of moderately saline | 127'            | (water) |
| Green River               | 3,923' - 6,107' | (oil)   |

**3. Pressure Control**

Section                      BOP Description

Surface                      No control

Production                The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc for a 2M system.

A 2M BOP system will consist of 2 ram preventers (double or two singles), and a rotating head. A choke manifold rated to at least 2,000 psi will be used.

**4. Casing**

| Description | Interval |                 | Weight (ppf) | Grade | Coupl | Pore Press @ Shoe | MW @ Shoe | Frac Grad @ Shoe | Safety Factors |          |         |
|-------------|----------|-----------------|--------------|-------|-------|-------------------|-----------|------------------|----------------|----------|---------|
|             | Top      | Bottom (TVD/MD) |              |       |       |                   |           |                  | Burst          | Collapse | Tension |
| Surface     | 0'       | 300'            | 24           | J-55  | STC   | 8.33              | 8.33      | 12               | 2,950          | 1,370    | 244,000 |
| 8 5/8       |          |                 |              |       |       |                   |           |                  | 17.53          | 14.35    | 33.89   |
| Production  | 0'       | 6,251'          | 20           | N-80  | LTC   | 8.33              | 9.0       | --               | 9,190          | 8,830    | 428,000 |
| 5 1/2       |          | 6,565'          |              |       |       |                   |           |                  | 4.41           | 3.84     | 3.42    |
| Production  | 6,565'   | 6,107'          | 11.6         | P-110 | LTC   | 8.33              | 9.0       | --               | 10,690         | 7,560    | 279,000 |
| 4 1/2       |          | 11,150'         |              |       |       |                   |           |                  | 5.25           | 3.36     | 4.77    |

A tapered string of production casing will be run. A 7-7/8" hole will be drilled for the 5-1/2" casing in the vertical and curve sections of the well. A 6-1/8" hole will be drilled for the 4-1/2" casing in the lateral section of the well.

**Assumptions:**

Surface casing MASP = (frac gradient + 1.0 ppg) - (gas gradient)

Production casing MASP = (reservoir pressure) - (gas gradient)

All collapse calculations assume fully evacuated casing with a gas gradient

All tension calculations assume air weight of casing

Gas gradient = 0.1 psi/ft

All casing shall be new.

All casing strings shall have a minimum of 1 centralizer on each of the bottom 3 joints.

## 5. Cement

| Job             | Hole Size | Fill   | Slurry Description                          | ft <sup>3</sup> | OH excess | Weight (ppg) | Yield (ft <sup>3</sup> /sk) |
|-----------------|-----------|--------|---|-----------------|-----------|--------------|-----------------------------|
|                 |           |        |   | sacks           |           |              |                             |
| Surface         | 12 1/4    | 300'   | Class G w/ 2% KCl + 0.25 lbs/sk Cello Flake | 142             | 15%       | 15.8         | 1.17                        |
|                 |           |        |   | 122             |           |              |                             |
| Production Lead | 7 7/8     | 3,923' | Premium Lite II w/ 3% KCl + 10% bentonite   | 782             | 15%       | 11.0         | 3.53                        |
|                 |           |        |   | 221             |           |              |                             |
| Production Tail | 7 7/8     | 1,807' | 50/50 Poz/Class G w/ 3% KCl + 2% bentonite  | 360             | 15%       | 14.3         | 1.24                        |
|                 |           |        |   | 290             |           |              |                             |

The surface casing will be cemented to surface. In the event that cement does not reach surface during the primary cement job, a remedial job will be performed.

A system of open hole packers will be used to isolate frac stages in the lateral. Open hole packers will be used to isolate the vertical portion of the well from the lateral. A port collar will be used to cement the vertical portion of the well.

Actual cement volumes for the production casing string will be calculated from an open hole caliper log, plus 15% excess.

## 6. Type and Characteristics of Proposed Circulating Medium

| <u>Interval</u> | <u>Description</u>   |
|-----------------|--|
| Surface - 300'  | An air and/or fresh water system will be utilized. If an air rig is used, the blooie line discharge may be less than 100' from the wellbore in order to minimize location size. The blooie line is not equipped with an automatic igniter. The air compressor may be located less than 100' from the well bore due to the low possibility of combustion with the air/dust mixture. Water will be on location to be used as kill fluid, if necessary. |
| 300' - TD       | A water based mud system will be utilized. Hole stability may be improved with additions of KCl or a similar inhibitive substance. In order to control formation pressure the system will be weighted with additions of bentonite, and if conditions warrant, with barite.<br>Anticipated maximum mud weight is 9.0 ppg.   |

## 7. Logging, Coring, and Testing

Logging: A dual induction, gamma ray, and caliper log will be run from TD to the base of the surface casing. A compensated neutron/formation density log will be run from TD to the

top of the Garden Gulch formation. A Gamma Ray log will be run from TD to surface. A cement bond log will be run from the port collar to the cement top behind the production casing. (cemented interval)

Cores: As deemed necessary.

DST: There are no DST's planned for this well.

## 8. Anticipated Abnormal Pressure or Temperature

Maximum anticipated bottomhole pressure will be approximately equal to total depth (feet) multiplied by a 0.43 psi/ft gradient.

$$6,251' \times 0.43 \text{ psi/ft} = 2708 \text{ psi}$$

No abnormal temperature is expected. No H<sub>2</sub>S is expected.

## 9. Other Aspects

The well will be drilled vertically to a kick-off point of 5,730'. Directional tools will then be used to build to 91.80 degrees inclination. The hole size in the lateral will be reduced to 6-1/8". The lateral will be drilled to the bottomhole location shown on the plat.

A tapered string of production casing will be run in the well, with 5-1/2" casing in the vertical and curve portions and 4-1/2" casing in the lateral portion.

A system of open hole packers will be used to provide multi-stage frac isolation in the lateral.

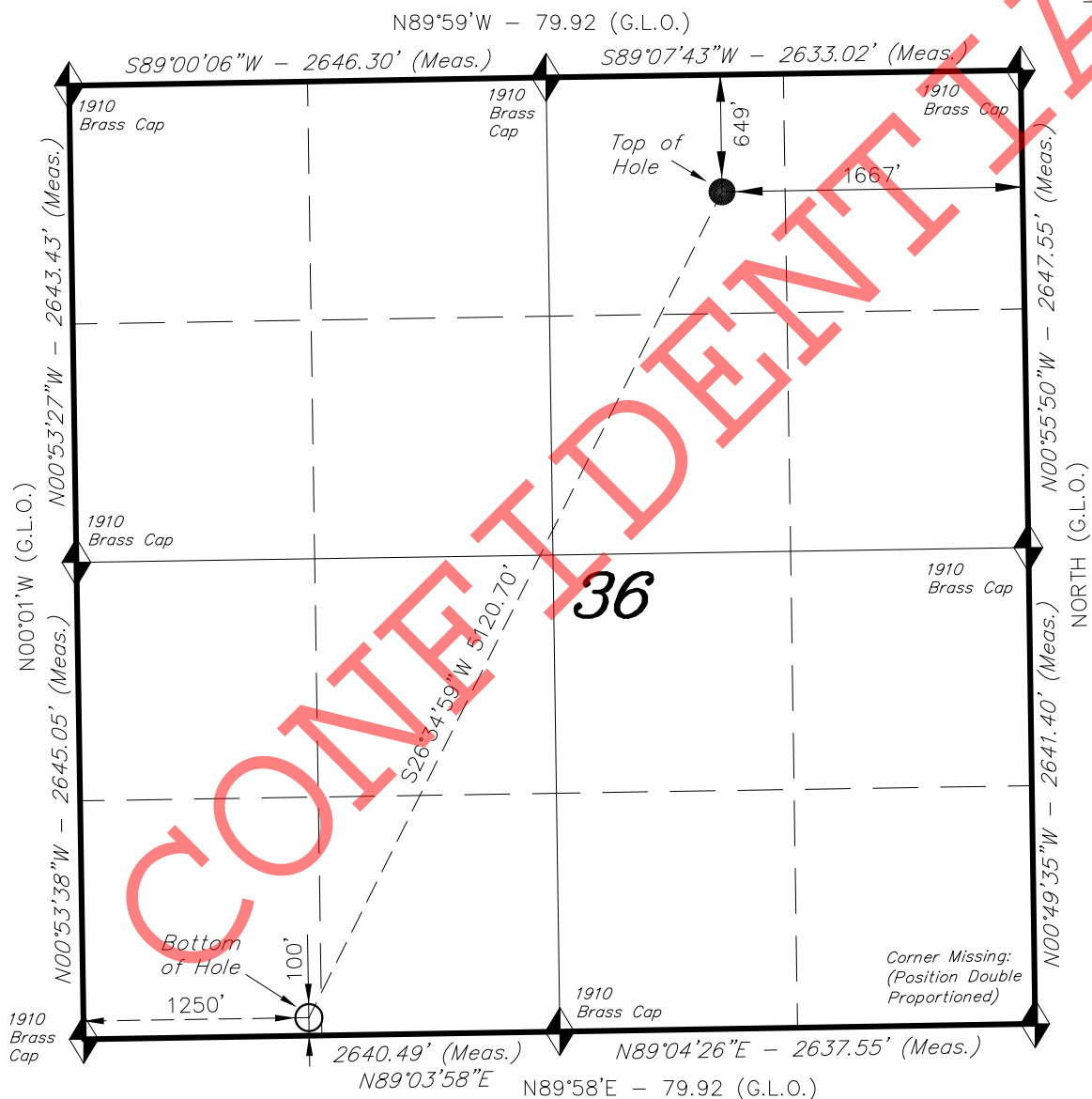
A set of open hole packers will be placed at kick-off point to isolate the lateral. A port cementing collar will be placed above the packers and will be used to cement the vertical portion of the well bore.

Newfield requests the following Variances from Onshore Order # 2:

- Variance from Onshore Order 2, III.E.1

Refer to Newfield Production Company Standard Operating Practices "Ute Tribal Green River Development Program" paragraph 9.2



**T8S, R17E, S.L.B.&M.****NEWFIELD EXPLORATION COMPANY**

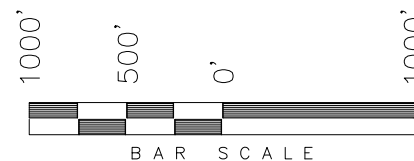
◆ = SECTION CORNERS LOCATED

BASIS OF ELEV; Elevations are based on an N.G.S. OPUS Correction. LOCATION: LAT. 40°04'09.56" LONG. 110°00'43.28" (Tristate Aluminum Cap) Elev. 5281.57'

**2-36-8-17H**  
**(Surface Location) NAD 83**  
 LATITUDE = 40° 04' 47.69"  
 LONGITUDE = 109° 57' 05.18"

WELL LOCATION, 2-36-8-17H, LOCATED AS SHOWN IN THE NW 1/4 NE 1/4 OF SECTION 36, T8S, R17E, S.L.B.&M. UTAH COUNTY, UTAH.

TARGET BOTTOM HOLE, 2-36-8-17H, LOCATED AS SHOWN IN THE SW 1/4 SW 1/4 OF SECTION 36, T8S, R17E, S.L.B.&M. UTAH COUNTY, UTAH.

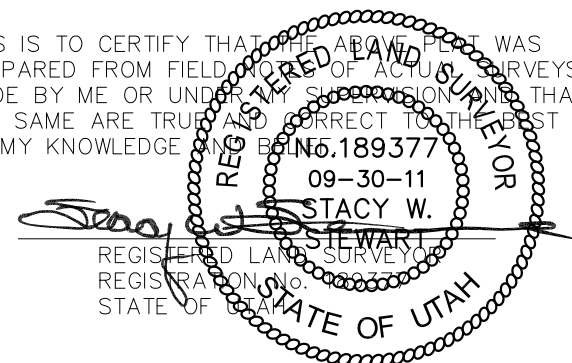
**NOTES:**

1. Well footages are measured at right angles to the Section Lines.
2. Bearings are based on Global Positioning Satellite observations.

**WELL LOCATION:**  
**2-36-8-17H**

ELEV. UNGRADED GROUND = 5045.0'

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

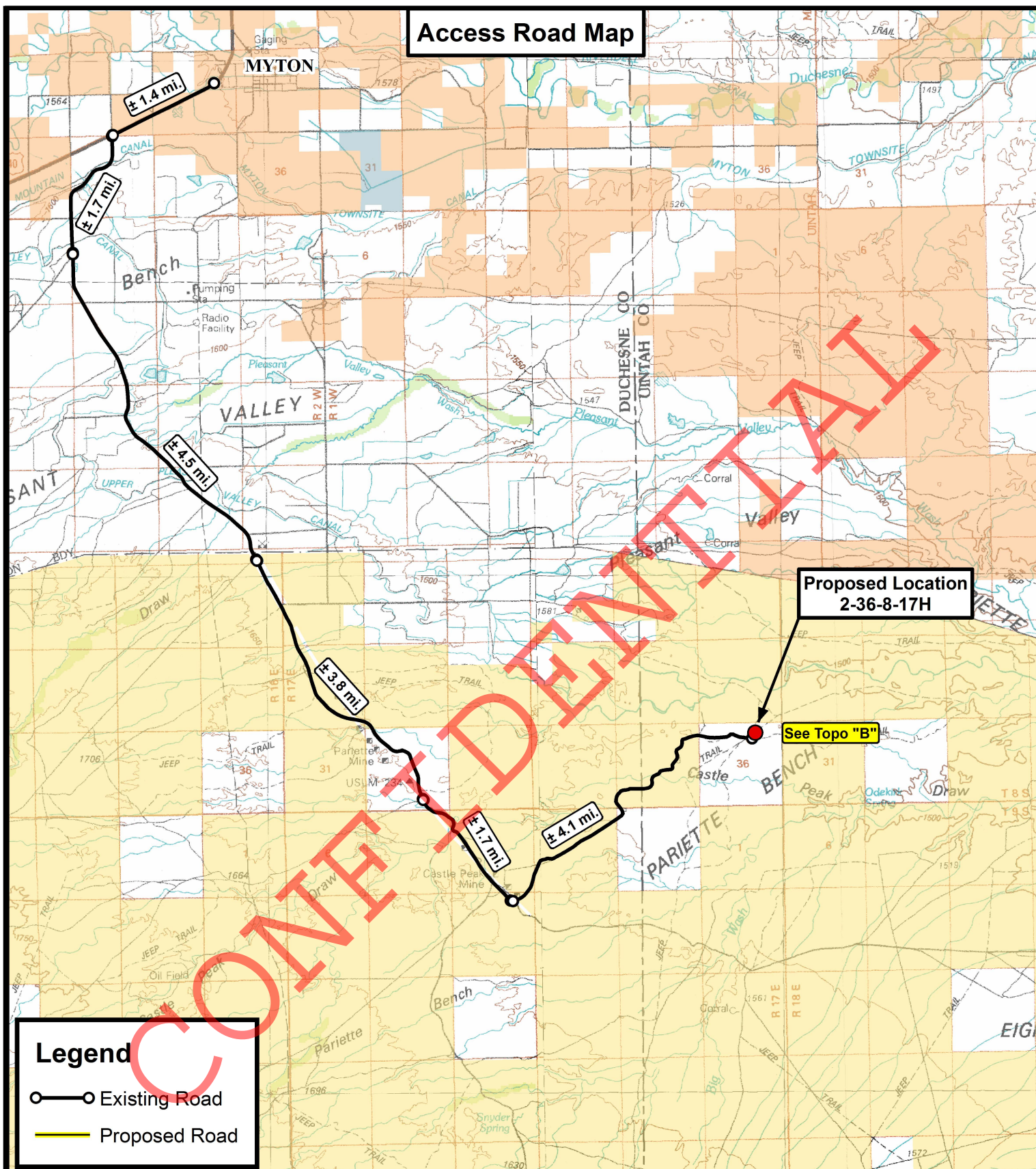
**TRI STATE LAND SURVEYING & CONSULTING**

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
 (435) 781-2501

|                            |                   |          |
|----------------------------|-------------------|----------|
| DATE SURVEYED:<br>09-08-11 | SURVEYED BY: S.V. | VERSION: |
| DATE DRAWN:<br>09-16-11    | DRAWN BY: F.T.M.  | V1       |
| REVISED:                   | SCALE: 1" = 1000' |          |

RECEIVED: November 17, 2011

## Access Road Map



**Tri State**  
**Land Surveying, Inc.**

180 NORTH VERNAL AVE. VERNAL, UTAH 84078

P: (435) 781-2501  
F: (435) 781-2518



# NEWFIELD EXPLORATION COMPANY

2-36-8-17H  
SEC. 36, T8S, R17E, S.L.B.&M.  
Uintah County, UT.

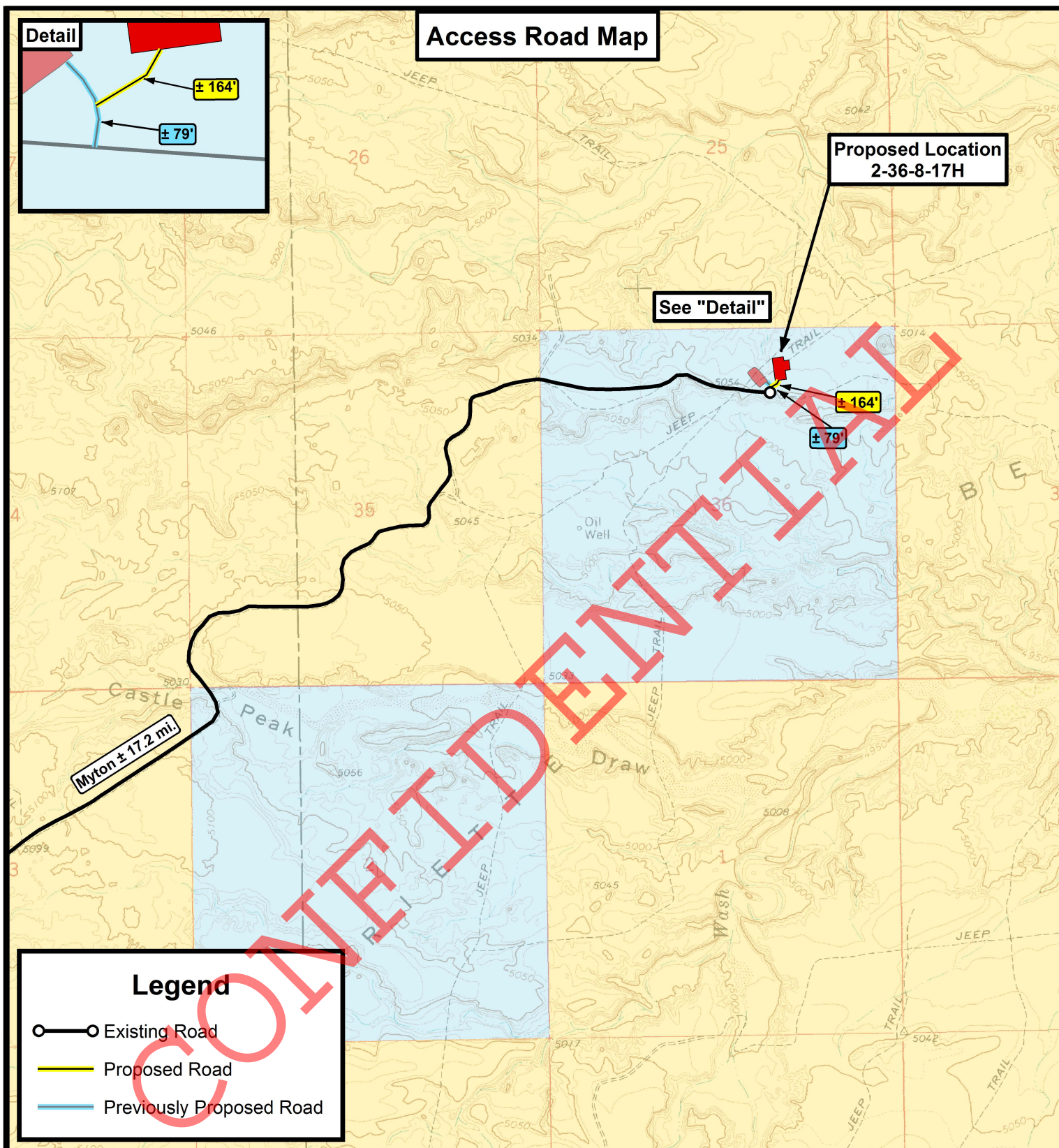
|           |            |          |          |
|-----------|------------|----------|----------|
| DRAWN BY: | A.P.C.     | REVISED: | VERSION: |
| DATE:     | 09-19-2011 |          | V1       |
| SCALE:    | 1:100,000  |          |          |

**TOPOGRAPHIC MAP**

SHEET

**A**





**Tri State**  
**Land Surveying, Inc.**  
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078

P: (435) 781-2501  
 F: (435) 781-2518



## NEWFIELD EXPLORATION COMPANY

2-36-8-17H  
 SEC. 36, T8S, R17E, S.L.B.&M.  
 Uintah County, UT.

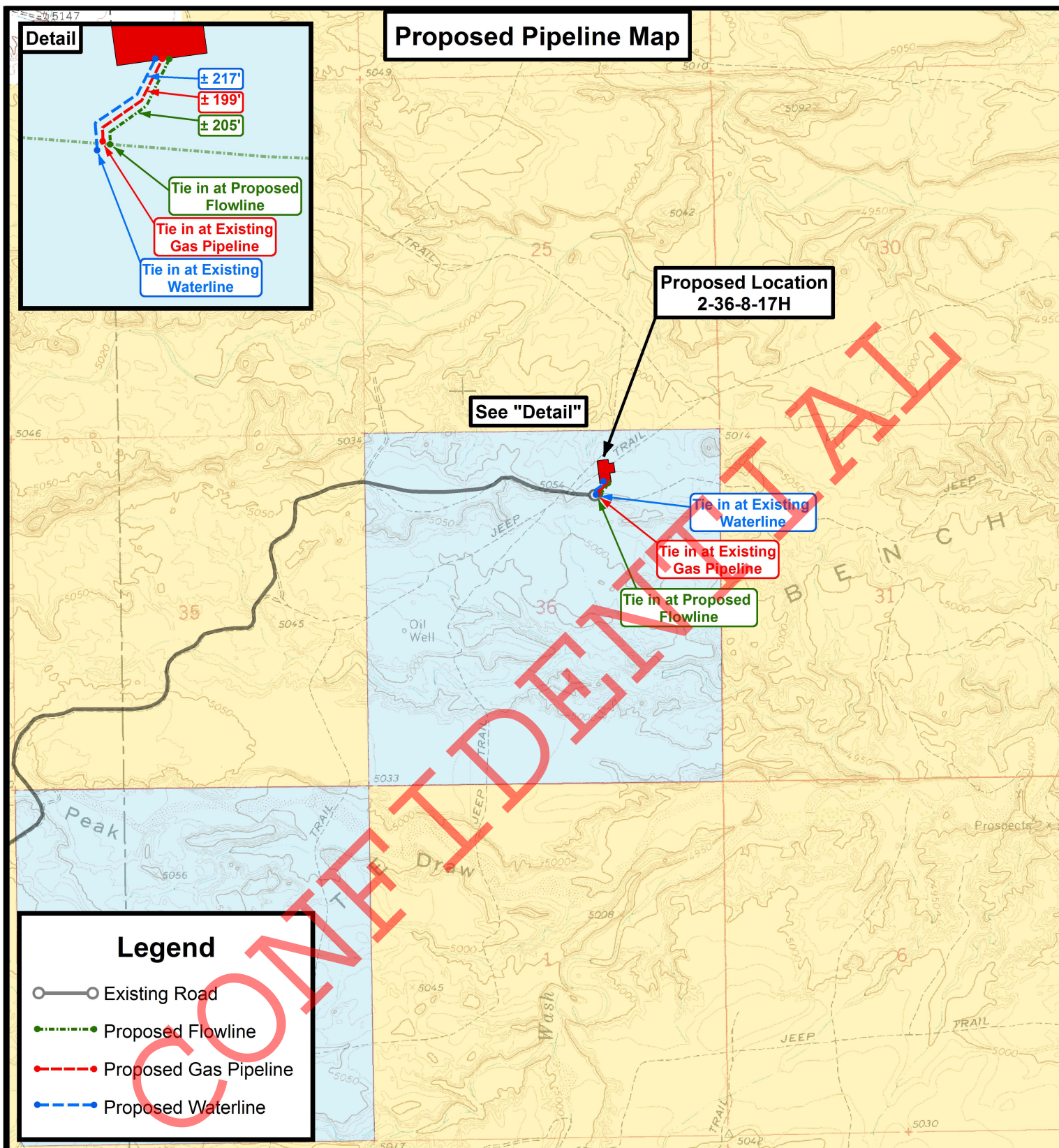
|           |             |          |          |
|-----------|-------------|----------|----------|
| DRAWN BY: | A.P.C.      | REVISED: | VERSION: |
| DATE:     | 09-19-2011  |          | V1       |
| SCALE:    | 1" = 2,000' |          |          |

**TOPOGRAPHIC MAP**

SHEET

**B**





THE PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY TRI-STATE LAND SURVEYING, INC. - TRI-STATE DOES NOT WARRANTY PROPERTY PARCEL DATA OR ANY ASSOCIATED INFORMATION. A PROPERTY SURVEY IS REQUIRED TO DETERMINE THE ACTUAL LOCATION OF PROPERTY LINES AND SHOW ACCURATE DISTANCES ACROSS PARCELS.



**Tri State**  
**Land Surveying, Inc.**

180 NORTH VERNAL AVE. VERNAL, UTAH 84078

P: (435) 781-2501  
F: (435) 781-2518



## NEWFIELD EXPLORATION COMPANY

2-36-8-17H  
SEC. 36, T8S, R17E, S.L.B.&M.  
Uintah County, UT.

|           |             |          |          |
|-----------|-------------|----------|----------|
| DRAWN BY: | A.P.C.      | REVISED: | VERSION: |
| DATE:     | 09-19-2011  |          | V1       |
| SCALE:    | 1" = 2,000' |          |          |

**TOPOGRAPHIC MAP**

SHEET

**C**



**Exhibit "B" Map**

**Proposed Location  
2-36-8-17H**

**Legend**

- 1 Mile Radius
- Proposed Location

THE PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY TRI-STATE LAND SURVEYING, INC. - TRI-STATE DOES NOT WARRANTY PROPERTY PARCEL DATA OR ANY ASSOCIATED INFORMATION. A PROPERTY SURVEY IS REQUIRED TO DETERMINE THE ACTUAL LOCATION OF PROPERTY LINES AND SHOW ACCURATE DISTANCES ACROSS PARCELS.



**Tri State  
Land Surveying, Inc.**

180 NORTH VERNAL AVE. VERNAL, UTAH 84078

P: (435) 781-2501  
F: (435) 781-2518

**NEWFIELD EXPLORATION COMPANY**

**2-36-8-17H  
SEC. 36, T8S, R17E, S.L.B.&M.  
Uintah County, UT.**

|           |             |          |           |
|-----------|-------------|----------|-----------|
| DRAWN BY: | A.P.C.      | REVISED: | VERSION:  |
| DATE:     | 09-19-2011  |          | <b>V1</b> |
| SCALE:    | 1" = 2,000' |          |           |

**TOPOGRAPHIC MAP**

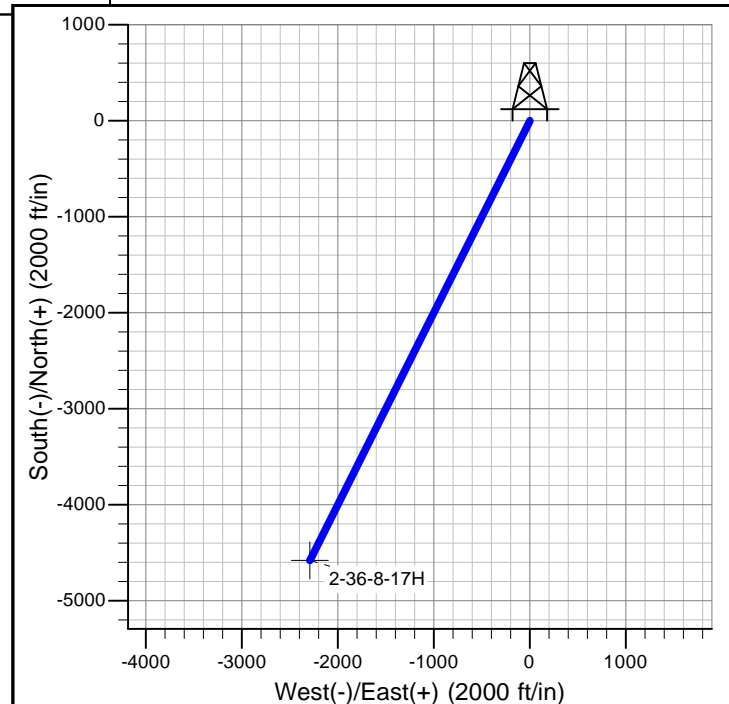
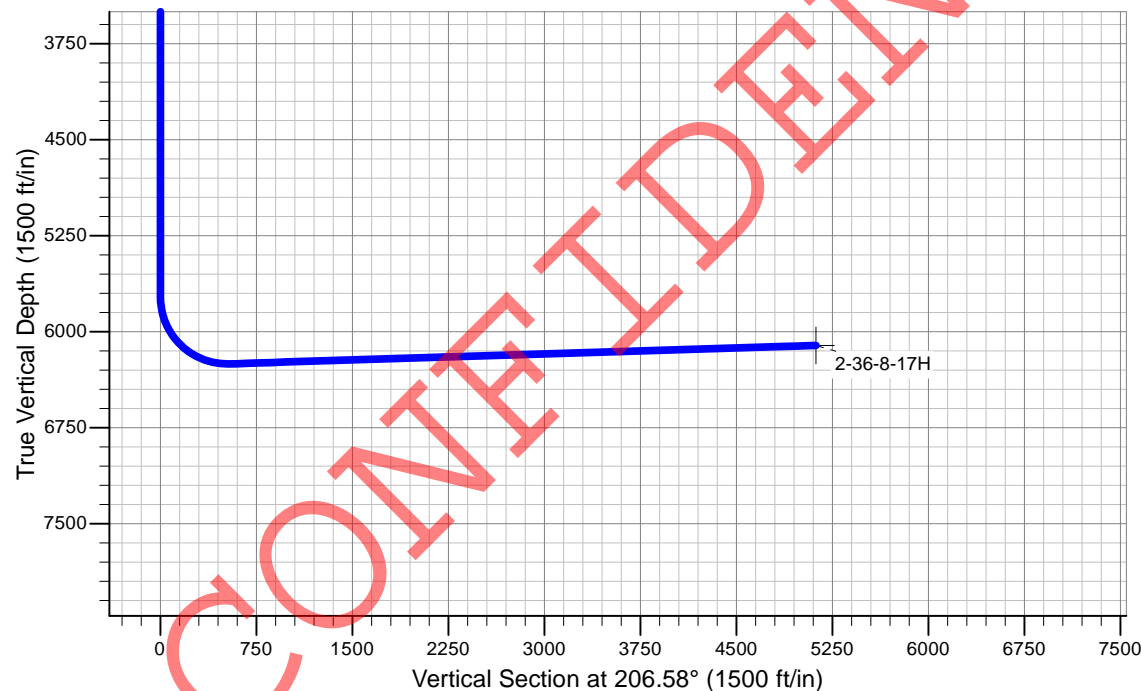
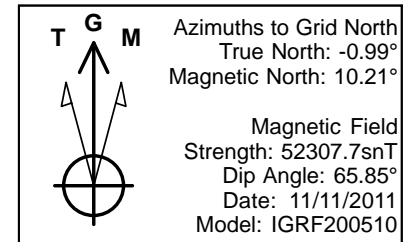
SHEET

**D**



# Newfield Production Company

**Project: Utah**  
**Site: GMB 2-36-8-17H**  
**Well: GMB 2-36-8-17H**  
**Wellbore: Wellbore #1**  
**Design: Design #1**



## SECTION DETAILS

| Sec | MD      | Inc   | Azi    | TVD    | +N/-S   | +E/-W   | Dleg  | TFace  | VSect  | Target     |
|-----|---------|-------|--------|--------|---------|---------|-------|--------|--------|------------|
| 1   | 0.0     | 0.00  | 0.00   | 0.0    | 0.0     | 0.0     | 0.00  | 0.00   | 0.0    |            |
| 2   | 5730.4  | 0.00  | 0.00   | 5730.4 | 0.0     | 0.0     | 0.00  | 0.00   | 0.0    |            |
| 3   | 6565.0  | 91.80 | 206.58 | 6251.0 | -480.5  | -240.4  | 11.00 | 206.58 | 537.2  |            |
| 4   | 11150.7 | 91.80 | 206.58 | 6107.0 | -4579.5 | -2291.2 | 0.00  | 0.00   | 5120.7 | 2-36-8-17H |

## PROJECT DETAILS: Utah

Geodetic System: US State Plane 1983  
 Datum: North American Datum 1983  
 Ellipsoid: GRS 1980  
 Zone: Utah Central Zone  
 System Datum: Mean Sea Level

# **Newfield Production Company**

**Utah**

**GMB 2-36-8-17H**

**GMB 2-36-8-17H**

**Wellbore #1**

**Plan: Design #1**

## **Standard Planning Report**

**11 November, 2011**

CONFIDENTIAL



## Planning Report

|                  |                             |                                     |                     |
|------------------|-----------------------------|-------------------------------------|---------------------|
| <b>Database:</b> | EDM 5000.1 Update           | <b>Local Co-ordinate Reference:</b> | Site GMB 2-36-8-17H |
| <b>Company:</b>  | Newfield Production Company | <b>TVD Reference:</b>               | RKB @ 5058.0ft      |
| <b>Project:</b>  | Utah                        | <b>MD Reference:</b>                | RKB @ 5058.0ft      |
| <b>Site:</b>     | GMB 2-36-8-17H              | <b>North Reference:</b>             | Grid                |
| <b>Well:</b>     | GMB 2-36-8-17H              | <b>Survey Calculation Method:</b>   | Minimum Curvature   |
| <b>Wellbore:</b> | Wellbore #1                 |                                     |                     |
| <b>Design:</b>   | Design #1                   |                                     |                     |

| Project     | Utah                      |               |                |
|-------------|---------------------------|---------------|----------------|
| Map System: | US State Plane 1983       | System Datum: | Mean Sea Level |
| Geo Datum:  | North American Datum 1983 |               |                |
| Map Zone:   | Utah Central Zone         |               |                |

|                       |                |              |                |                   |                  |
|-----------------------|----------------|--------------|----------------|-------------------|------------------|
| Site                  | GMB 2-36-8-17H |              |                |                   |                  |
| Site Position:        |                | Northing:    | 2,195,047.03 m | Latitude:         | 40° 4' 47.690 N  |
| From:                 | Lat/Long       | Easting:     | 632,064.57 m   | Longitude:        | 109° 57' 5.180 W |
| Position Uncertainty: | 0.0 ft         | Slot Radius: | 13.200 in      | Grid Convergence: | 0.99             |

|                      |                |        |                     |                |               |                  |
|----------------------|----------------|--------|---------------------|----------------|---------------|------------------|
| Well                 | GMB 2-36-8-17H |        |                     |                |               |                  |
| Well Position        | +N/-S          | 0.0 ft | Northing:           | 2,195,047.03 m | Latitude:     | 40° 4' 47.690 N  |
|                      | +E/-W          | 0.0 ft | Easting:            | 632,064.57 m   | Longitude:    | 109° 57' 5.180 W |
| Position Uncertainty |                | 0.0 ft | Wellhead Elevation: |                | Ground Level: | 5,045.0 ft       |

|           |            |             |                 |               |                     |
|-----------|------------|-------------|-----------------|---------------|---------------------|
| Wellbore  |            | Wellbore #1 |                 |               |                     |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|           | IGRF200510 | 11/11/2011  | 11.20           | 65.85         | 52,308              |

|                   |                  |           |       |               |     |
|-------------------|------------------|-----------|-------|---------------|-----|
| Design            | Design #1        |           |       |               |     |
| Audit Notes:      |                  |           |       |               |     |
| Version:          | Phase:           | PROTOTYPE |       | Tie On Depth: | 0.0 |
| Vertical Section: | Depth From (TVD) | +N/-S     | +E/-W | Direction     |     |
|                   | (ft)             | (ft)      | (ft)  | (°)           |     |
|                   | 0.0              | 0.0       | 0.0   | 206.58        |     |

| Plan Sections             |                    |                |                           |               |               |                             |                            |                           |            |            |
|---------------------------|--------------------|----------------|---------------------------|---------------|---------------|-----------------------------|----------------------------|---------------------------|------------|------------|
| Measured<br>Depth<br>(ft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Dogleg<br>Rate<br>(°/100ft) | Build<br>Rate<br>(°/100ft) | Turn<br>Rate<br>(°/100ft) | TFO<br>(°) | Target     |
| 0.0                       | 0.00               | 0.00           | 0.0                       | 0.0           | 0.0           | 0.00                        | 0.00                       | 0.00                      | 0.00       |            |
| 5,730.4                   | 0.00               | 0.00           | 5,730.4                   | 0.0           | 0.0           | 0.00                        | 0.00                       | 0.00                      | 0.00       |            |
| 6,565.0                   | 91.80              | 206.58         | 6,251.0                   | -480.5        | -240.4        | 11.00                       | 11.00                      | 0.00                      | 206.58     |            |
| 11,150.7                  | 91.80              | 206.58         | 6,107.0                   | -4,579.5      | -2,291.2      | 0.00                        | 0.00                       | 0.00                      | 0.00       | 2-36-8-17H |



## Planning Report

|                  |                             |                                     |                     |
|------------------|-----------------------------|-------------------------------------|---------------------|
| <b>Database:</b> | EDM 5000.1 Update           | <b>Local Co-ordinate Reference:</b> | Site GMB 2-36-8-17H |
| <b>Company:</b>  | Newfield Production Company | <b>TVD Reference:</b>               | RKB @ 5058.0ft      |
| <b>Project:</b>  | Utah                        | <b>MD Reference:</b>                | RKB @ 5058.0ft      |
| <b>Site:</b>     | GMB 2-36-8-17H              | <b>North Reference:</b>             | Grid                |
| <b>Well:</b>     | GMB 2-36-8-17H              | <b>Survey Calculation Method:</b>   | Minimum Curvature   |
| <b>Wellbore:</b> | Wellbore #1                 |                                     |                     |
| <b>Design:</b>   | Design #1                   |                                     |                     |

| Planned Survey      |                 |             |                     |            |            |                       |                       |                      |                     |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 0.0                 | 0.00            | 0.00        | 0.0                 | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 100.0               | 0.00            | 0.00        | 100.0               | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 200.0               | 0.00            | 0.00        | 200.0               | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 300.0               | 0.00            | 0.00        | 300.0               | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 400.0               | 0.00            | 0.00        | 400.0               | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 500.0               | 0.00            | 0.00        | 500.0               | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 600.0               | 0.00            | 0.00        | 600.0               | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 700.0               | 0.00            | 0.00        | 700.0               | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 800.0               | 0.00            | 0.00        | 800.0               | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 900.0               | 0.00            | 0.00        | 900.0               | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 1,000.0             | 0.00            | 0.00        | 1,000.0             | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 1,100.0             | 0.00            | 0.00        | 1,100.0             | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 1,200.0             | 0.00            | 0.00        | 1,200.0             | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 1,300.0             | 0.00            | 0.00        | 1,300.0             | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 1,400.0             | 0.00            | 0.00        | 1,400.0             | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 1,500.0             | 0.00            | 0.00        | 1,500.0             | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 1,600.0             | 0.00            | 0.00        | 1,600.0             | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 1,700.0             | 0.00            | 0.00        | 1,700.0             | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 1,800.0             | 0.00            | 0.00        | 1,800.0             | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 1,900.0             | 0.00            | 0.00        | 1,900.0             | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 2,000.0             | 0.00            | 0.00        | 2,000.0             | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 2,100.0             | 0.00            | 0.00        | 2,100.0             | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 2,200.0             | 0.00            | 0.00        | 2,200.0             | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 2,300.0             | 0.00            | 0.00        | 2,300.0             | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 2,400.0             | 0.00            | 0.00        | 2,400.0             | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 2,500.0             | 0.00            | 0.00        | 2,500.0             | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 2,600.0             | 0.00            | 0.00        | 2,600.0             | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 2,700.0             | 0.00            | 0.00        | 2,700.0             | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 2,800.0             | 0.00            | 0.00        | 2,800.0             | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 2,900.0             | 0.00            | 0.00        | 2,900.0             | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 3,000.0             | 0.00            | 0.00        | 3,000.0             | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 3,100.0             | 0.00            | 0.00        | 3,100.0             | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 3,200.0             | 0.00            | 0.00        | 3,200.0             | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 3,300.0             | 0.00            | 0.00        | 3,300.0             | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 3,400.0             | 0.00            | 0.00        | 3,400.0             | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 3,500.0             | 0.00            | 0.00        | 3,500.0             | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 3,600.0             | 0.00            | 0.00        | 3,600.0             | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 3,700.0             | 0.00            | 0.00        | 3,700.0             | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 3,800.0             | 0.00            | 0.00        | 3,800.0             | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 3,900.0             | 0.00            | 0.00        | 3,900.0             | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 4,000.0             | 0.00            | 0.00        | 4,000.0             | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 4,100.0             | 0.00            | 0.00        | 4,100.0             | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 4,200.0             | 0.00            | 0.00        | 4,200.0             | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 4,300.0             | 0.00            | 0.00        | 4,300.0             | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 4,400.0             | 0.00            | 0.00        | 4,400.0             | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 4,500.0             | 0.00            | 0.00        | 4,500.0             | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 4,600.0             | 0.00            | 0.00        | 4,600.0             | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 4,700.0             | 0.00            | 0.00        | 4,700.0             | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 4,800.0             | 0.00            | 0.00        | 4,800.0             | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 4,900.0             | 0.00            | 0.00        | 4,900.0             | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 5,000.0             | 0.00            | 0.00        | 5,000.0             | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 5,100.0             | 0.00            | 0.00        | 5,100.0             | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 5,200.0             | 0.00            | 0.00        | 5,200.0             | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 5,300.0             | 0.00            | 0.00        | 5,300.0             | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |

## Planning Report

|                  |                             |                                     |                     |
|------------------|-----------------------------|-------------------------------------|---------------------|
| <b>Database:</b> | EDM 5000.1 Update           | <b>Local Co-ordinate Reference:</b> | Site GMB 2-36-8-17H |
| <b>Company:</b>  | Newfield Production Company | <b>TVD Reference:</b>               | RKB @ 5058.0ft      |
| <b>Project:</b>  | Utah                        | <b>MD Reference:</b>                | RKB @ 5058.0ft      |
| <b>Site:</b>     | GMB 2-36-8-17H              | <b>North Reference:</b>             | Grid                |
| <b>Well:</b>     | GMB 2-36-8-17H              | <b>Survey Calculation Method:</b>   | Minimum Curvature   |
| <b>Wellbore:</b> | Wellbore #1                 |                                     |                     |
| <b>Design:</b>   | Design #1                   |                                     |                     |

| Planned Survey      |                 |             |                     |            |            |                       |                       |                      |                     |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 5,400.0             | 0.00            | 0.00        | 5,400.0             | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 5,500.0             | 0.00            | 0.00        | 5,500.0             | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 5,600.0             | 0.00            | 0.00        | 5,600.0             | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 5,700.0             | 0.00            | 0.00        | 5,700.0             | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 5,730.4             | 0.00            | 0.00        | 5,730.4             | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 5,800.0             | 7.65            | 206.58      | 5,799.8             | -4.1       | -2.1       | 4.6                   | 11.00                 | 11.00                | 0.00                |
| 5,900.0             | 18.65           | 206.58      | 5,897.0             | -24.5      | -12.2      | 27.4                  | 11.00                 | 11.00                | 0.00                |
| 6,000.0             | 29.65           | 206.58      | 5,988.1             | -61.0      | -30.5      | 68.2                  | 11.00                 | 11.00                | 0.00                |
| 6,100.0             | 40.65           | 206.58      | 6,069.8             | -112.4     | -56.2      | 125.7                 | 11.00                 | 11.00                | 0.00                |
| 6,200.0             | 51.65           | 206.58      | 6,138.9             | -176.8     | -88.5      | 197.7                 | 11.00                 | 11.00                | 0.00                |
| 6,300.0             | 62.65           | 206.58      | 6,193.1             | -251.8     | -126.0     | 281.6                 | 11.00                 | 11.00                | 0.00                |
| 6,400.0             | 73.65           | 206.58      | 6,230.2             | -334.7     | -167.5     | 374.3                 | 11.00                 | 11.00                | 0.00                |
| 6,500.0             | 84.65           | 206.58      | 6,249.0             | -422.4     | -211.3     | 472.3                 | 11.00                 | 11.00                | 0.00                |
| 6,565.0             | 91.80           | 206.58      | 6,251.0             | -480.5     | -240.4     | 537.2                 | 11.00                 | 11.00                | 0.00                |
| 6,600.0             | 91.80           | 206.58      | 6,249.9             | -511.8     | -256.0     | 572.2                 | 0.00                  | 0.00                 | 0.00                |
| 6,700.0             | 91.80           | 206.58      | 6,246.8             | -601.1     | -300.8     | 672.2                 | 0.00                  | 0.00                 | 0.00                |
| 6,800.0             | 91.80           | 206.58      | 6,243.7             | -690.5     | -345.5     | 772.1                 | 0.00                  | 0.00                 | 0.00                |
| 6,900.0             | 91.80           | 206.58      | 6,240.5             | -779.9     | -390.2     | 872.1                 | 0.00                  | 0.00                 | 0.00                |
| 7,000.0             | 91.80           | 206.58      | 6,237.4             | -869.3     | -434.9     | 972.0                 | 0.00                  | 0.00                 | 0.00                |
| 7,100.0             | 91.80           | 206.58      | 6,234.2             | -958.7     | -479.7     | 1,072.0               | 0.00                  | 0.00                 | 0.00                |
| 7,200.0             | 91.80           | 206.58      | 6,231.1             | -1,048.1   | -524.4     | 1,171.9               | 0.00                  | 0.00                 | 0.00                |
| 7,300.0             | 91.80           | 206.58      | 6,228.0             | -1,137.5   | -569.1     | 1,271.9               | 0.00                  | 0.00                 | 0.00                |
| 7,400.0             | 91.80           | 206.58      | 6,224.8             | -1,226.9   | -613.8     | 1,371.8               | 0.00                  | 0.00                 | 0.00                |
| 7,500.0             | 91.80           | 206.58      | 6,221.7             | -1,316.2   | -658.6     | 1,471.8               | 0.00                  | 0.00                 | 0.00                |
| 7,600.0             | 91.80           | 206.58      | 6,218.5             | -1,405.6   | -703.3     | 1,571.7               | 0.00                  | 0.00                 | 0.00                |
| 7,700.0             | 91.80           | 206.58      | 6,215.4             | -1,495.0   | -748.0     | 1,671.7               | 0.00                  | 0.00                 | 0.00                |
| 7,800.0             | 91.80           | 206.58      | 6,212.2             | -1,584.4   | -792.7     | 1,771.6               | 0.00                  | 0.00                 | 0.00                |
| 7,900.0             | 91.80           | 206.58      | 6,209.1             | -1,673.8   | -837.4     | 1,871.6               | 0.00                  | 0.00                 | 0.00                |
| 8,000.0             | 91.80           | 206.58      | 6,206.0             | -1,763.2   | -882.2     | 1,971.6               | 0.00                  | 0.00                 | 0.00                |
| 8,100.0             | 91.80           | 206.58      | 6,202.8             | -1,852.6   | -926.9     | 2,071.5               | 0.00                  | 0.00                 | 0.00                |
| 8,200.0             | 91.80           | 206.58      | 6,199.7             | -1,942.0   | -971.6     | 2,171.5               | 0.00                  | 0.00                 | 0.00                |
| 8,300.0             | 91.80           | 206.58      | 6,196.5             | -2,031.3   | -1,016.3   | 2,271.4               | 0.00                  | 0.00                 | 0.00                |
| 8,400.0             | 91.80           | 206.58      | 6,193.4             | -2,120.7   | -1,061.1   | 2,371.4               | 0.00                  | 0.00                 | 0.00                |
| 8,500.0             | 91.80           | 206.58      | 6,190.3             | -2,210.1   | -1,105.8   | 2,471.3               | 0.00                  | 0.00                 | 0.00                |
| 8,600.0             | 91.80           | 206.58      | 6,187.1             | -2,299.5   | -1,150.5   | 2,571.3               | 0.00                  | 0.00                 | 0.00                |
| 8,700.0             | 91.80           | 206.58      | 6,184.0             | -2,388.9   | -1,195.2   | 2,671.2               | 0.00                  | 0.00                 | 0.00                |
| 8,800.0             | 91.80           | 206.58      | 6,180.8             | -2,478.3   | -1,239.9   | 2,771.2               | 0.00                  | 0.00                 | 0.00                |
| 8,900.0             | 91.80           | 206.58      | 6,177.7             | -2,567.7   | -1,284.7   | 2,871.1               | 0.00                  | 0.00                 | 0.00                |
| 9,000.0             | 91.80           | 206.58      | 6,174.6             | -2,657.0   | -1,329.4   | 2,971.1               | 0.00                  | 0.00                 | 0.00                |
| 9,100.0             | 91.80           | 206.58      | 6,171.4             | -2,746.4   | -1,374.1   | 3,071.0               | 0.00                  | 0.00                 | 0.00                |
| 9,200.0             | 91.80           | 206.58      | 6,168.3             | -2,835.8   | -1,418.8   | 3,171.0               | 0.00                  | 0.00                 | 0.00                |
| 9,300.0             | 91.80           | 206.58      | 6,165.1             | -2,925.2   | -1,463.6   | 3,270.9               | 0.00                  | 0.00                 | 0.00                |
| 9,400.0             | 91.80           | 206.58      | 6,162.0             | -3,014.6   | -1,508.3   | 3,370.9               | 0.00                  | 0.00                 | 0.00                |
| 9,500.0             | 91.80           | 206.58      | 6,158.8             | -3,104.0   | -1,553.0   | 3,470.8               | 0.00                  | 0.00                 | 0.00                |
| 9,600.0             | 91.80           | 206.58      | 6,155.7             | -3,193.4   | -1,597.7   | 3,570.8               | 0.00                  | 0.00                 | 0.00                |
| 9,700.0             | 91.80           | 206.58      | 6,152.6             | -3,282.8   | -1,642.4   | 3,670.7               | 0.00                  | 0.00                 | 0.00                |
| 9,800.0             | 91.80           | 206.58      | 6,149.4             | -3,372.1   | -1,687.2   | 3,770.7               | 0.00                  | 0.00                 | 0.00                |
| 9,900.0             | 91.80           | 206.58      | 6,146.3             | -3,461.5   | -1,731.9   | 3,870.6               | 0.00                  | 0.00                 | 0.00                |
| 10,000.0            | 91.80           | 206.58      | 6,143.1             | -3,550.9   | -1,776.6   | 3,970.6               | 0.00                  | 0.00                 | 0.00                |
| 10,100.0            | 91.80           | 206.58      | 6,140.0             | -3,640.3   | -1,821.3   | 4,070.5               | 0.00                  | 0.00                 | 0.00                |
| 10,200.0            | 91.80           | 206.58      | 6,136.9             | -3,729.7   | -1,866.1   | 4,170.5               | 0.00                  | 0.00                 | 0.00                |
| 10,300.0            | 91.80           | 206.58      | 6,133.7             | -3,819.1   | -1,910.8   | 4,270.4               | 0.00                  | 0.00                 | 0.00                |
| 10,400.0            | 91.80           | 206.58      | 6,130.6             | -3,908.5   | -1,955.5   | 4,370.4               | 0.00                  | 0.00                 | 0.00                |
| 10,500.0            | 91.80           | 206.58      | 6,127.4             | -3,997.9   | -2,000.2   | 4,470.3               | 0.00                  | 0.00                 | 0.00                |

## Planning Report

|                  |                             |                                     |                     |
|------------------|-----------------------------|-------------------------------------|---------------------|
| <b>Database:</b> | EDM 5000.1 Update           | <b>Local Co-ordinate Reference:</b> | Site GMB 2-36-8-17H |
| <b>Company:</b>  | Newfield Production Company | <b>TVD Reference:</b>               | RKB @ 5058.0ft      |
| <b>Project:</b>  | Utah                        | <b>MD Reference:</b>                | RKB @ 5058.0ft      |
| <b>Site:</b>     | GMB 2-36-8-17H              | <b>North Reference:</b>             | Grid                |
| <b>Well:</b>     | GMB 2-36-8-17H              | <b>Survey Calculation Method:</b>   | Minimum Curvature   |
| <b>Wellbore:</b> | Wellbore #1                 |                                     |                     |
| <b>Design:</b>   | Design #1                   |                                     |                     |

| Planned Survey      |                 |             |                     |            |            |                       |                       |                      |                     |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 10,600.0            | 91.80           | 206.58      | 6,124.3             | -4,087.2   | -2,045.0   | 4,570.3               | 0.00                  | 0.00                 | 0.00                |
| 10,700.0            | 91.80           | 206.58      | 6,121.2             | -4,176.6   | -2,089.7   | 4,670.2               | 0.00                  | 0.00                 | 0.00                |
| 10,800.0            | 91.80           | 206.58      | 6,118.0             | -4,266.0   | -2,134.4   | 4,770.2               | 0.00                  | 0.00                 | 0.00                |
| 10,900.0            | 91.80           | 206.58      | 6,114.9             | -4,355.4   | -2,179.1   | 4,870.1               | 0.00                  | 0.00                 | 0.00                |
| 11,000.0            | 91.80           | 206.58      | 6,111.7             | -4,444.8   | -2,223.8   | 4,970.1               | 0.00                  | 0.00                 | 0.00                |
| 11,100.0            | 91.80           | 206.58      | 6,108.6             | -4,534.2   | -2,268.6   | 5,070.0               | 0.00                  | 0.00                 | 0.00                |
| 11,150.7            | 91.80           | 206.58      | 6,107.0             | -4,579.5   | -2,291.2   | 5,120.7               | 0.00                  | 0.00                 | 0.00                |

| Design Targets                                     |               |              |          |            |            |              |             |                |                   |
|--|---------------|--------------|----------|------------|------------|--------------|-------------|----------------|-------------------|
| Target Name<br>- hit/miss target<br>- Shape        | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (m) | Easting (m) | Latitude       | Longitude         |
| 2-36-8-17H<br>- plan hits target center<br>- Point | 0.00          | 0.00         | 6,107.0  | -4,579.5   | -2,291.2   | 2,193,651.20 | 631,366.20  | 40° 4' 2.828 N | 109° 57' 35.669 W |

NEWFIELD PRODUCTION COMPANY  
GMBU 2-36-8-17H  
SHL: NW/NE SECTION 36, T8S, R17E  
BHL: SW/SW SECTION 36, T8S, R17E  
UINTAH COUNTY, UTAH

THIRTEEN POINT SURFACE PROGRAM

1. **EXISTING ROADS**

See attached **Topographic Map "A"**

To reach Newfield Production Company well location site GMBU 2-36-8-17H located in the NW¼ NE¼ Section 36, T8S, R17E, S.L.B. & M., Uintah County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.4 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed southeasterly - 11.7 miles  $\pm$  to its junction with an existing road to the northeast; proceed northeasterly - 4.1 miles  $\pm$  to its junction with the beginning of the proposed access road to the northeast; proceed northeasterly along the proposed access road - 243'  $\pm$  to the proposed well location.

The highways mentioned in the foregoing paragraph are bituminous surfaced roads to the point where Highway 216 exists to the South, thereafter the roads are constructed with existing materials and gravel. The highways are maintained by Utah State road crews. All other roads are maintained by County crews.

The aforementioned dirt oil field service roads and other roads in the vicinity are constructed out of existing native materials that are prevalent to the existing area they are located in and range from clays to a sandy-clay shale material.

The roads for access during the drilling, completion and production phase will be maintained at the standards required by the State of Utah, or other controlling agencies. This maintenance will consist of some minor grader work for smoothing road surfaces and for snow removal.

2. **PLANNED ACCESS ROAD**

Approximately 243' of access road is proposed. See attached **Topographic Map "B"**.

The proposed access road will be an 18' crown road (9' either side of the centerline) with drainage ditches along either side of the proposed road whether it is deemed necessary in order to handle any run-off from normal meteorological conditions that are prevalent to this area. The maximum grade will be less than 8%.

There will be no culverts required along this access road. There will be barrow ditches and turnouts as needed along this road.

There are no fences encountered along this proposed road. There will be no new gates or cattle guards required.

All construction material for this access road will be borrowed material accumulated during construction of the access road.

3. **LOCATION OF EXISTING WELLS**

Refer to **EXHIBIT B**.

4. **LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

There are no existing facilities that will be used by this well.

It is anticipated that this well will be a producing oil well.

Upon construction of a tank battery, the well pad will be surrounded by a dike of sufficient capacity to contain at minimum 110% of the largest tank volume within the facility battery.

Tank batteries will be built to State specifications.

All permanent (on site for six (6) months or longer) structures, constructed or installed (including pumping units), will be painted a flat, non-reflective, earth tone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. All facilities will be painted within six months of installation.

5. **LOCATION AND TYPE OF WATER SUPPLY**

Newfield Production will transport water by truck for drilling purposes from the following water sources:

Johnson Water District  
Water Right: 43-7478

Neil Moon Pond  
Water Right: 43-11787

Maurice Harvey Pond  
Water Right: 47-1358

Newfield Collector Well  
Water Right: 47-1817 (A30414DVA, contracted with the Duchesne County Conservancy District).

There will be no water well drilled at this site

6. **SOURCE OF CONSTRUCTION MATERIALS**

All construction material for this location shall be borrowed material accumulated during construction of the location site and access road.

A mineral material application is not required for this location.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

A small reserve pit (90' x 40' x 8' deep, or less) will be constructed from native soil and clay materials. The reserve pit will receive the processed drill cutting (wet sand, shale & rock) removed from the wellbore. Any drilling fluids, which do accumulate in the pit as a result of shale-shaker carryover, cleaning of the sand trap, etc., will be promptly reclaimed. All drilling fluids will be fresh water based, typically containing Total Dissolved Solids of less than 3000 PPM. No potassium chloride, chromates, trash, debris, nor any other substance deemed hazardous will be placed in this pit. A 16 mil liner with felt will be required. Newfield requests approval that a flare pit be constructed and utilized on this location.

A portable toilet will be provided for human waste.

A trash basket will be provided for garbage (trash) and hauled away to an approved disposal site at the completion of the drilling activities.

Immediately upon first production, all produced water will be confined to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

8. **ANCILLARY FACILITIES:**

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. **WELL SITE LAYOUT:**

See attached Location Layout Sheet.

**Fencing Requirements**

All pits will be fenced according to the following minimum standards:

- a) A 39-inch net wire shall be used with at least one strand of barbed wire on top of the net.
- b) The net wire shall be no more than two (2) inches above the ground. The barbed wire shall be three (3) inches above the net wire. Total height of the fence shall be at least forty-two (42) inches.
- c) Corner posts shall be centered and/or braced in such a manner to keep tight at all times
- d) Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than sixteen (16) feet.
- e) All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

The reserve pit fencing will be on three (3) sides during drilling operations and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

10. **PLANS FOR RESTORATION OF SURFACE:**

a) **Producing Location**

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, material, trash and junk not required for production.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximated natural contours. Weather permitting, the reserve pit will be reclaimed within one hundred twenty (120) days from the date of well completion. Before any dirt work takes place, the reserve pit must have all fluids and hydrocarbons removed.

b) **Dry Hole Abandoned Location**

At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment and the State of Utah will attach the appropriate surface rehabilitation conditions of approval.

11. **SURFACE OWNERSHIP:** State of Utah.

12. **OTHER ADDITIONAL INFORMATION:**

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. State of Utah Antiquities Project Permit #U-11-MQ-0265s 5/2/11. Paleontological Resource Survey prepared by, Wade E. Miller, 4/7/11.

Newfield Production Company requests 243' of planned access road be granted. **Refer to Topographic Map "B"**. Newfield Production Company requests 199' of surface gas line be granted. Newfield Production Company requests 217' of buried water line be granted.

It is proposed that the disturbed area will be 60' wide to allow for construction of the proposed access road, a 10" or smaller gas gathering line, a 4" poly fuel gas line, a buried 10" steel water injection line, a buried 3" poly water return line, and a and a 14" surface flow line. The planned access road will consist of a 20' permanent running surface (10' either side of the centerline) crowned and ditched in order to handle any run-off from any precipitation events that are prevalent to this area. The maximum grade will be less than 8%. There will be no culverts required along this access road. There will be turnouts as needed along this road to allow for increases in potential traffic issues. There are no fences encountered along this proposed road. There will be no new gates or cattle guards required. All construction material for this access road will be borrowed material accumulated during construction of the access road.

Both the proposed surface gas and buried water lines will tie in to the existing pipeline infrastructure. **Refer to Topographic Map "C"**. The proposed water pipelines will be buried in a 4-5' deep trench constructed with a trencher or backhoe for the length of the proposal. The equipment will run on the surface and not be flat bladed to minimize surface impacts to precious topsoil in these High Desert environments. If possible, all proposed surface gas pipelines will be installed on the same side of the road as existing gas lines. The construction phase of the planned access road, proposed gas lines and proposed water lines will last approximately (5) days.

In the event that the proposed well is converted to a water injection well, a Sundry Notice form will be applied for through the State of Utah DOGM office.

**Surface Flow Line**

Newfield requests 205' of surface flow line be granted. The Surface Flow Line will consist of up to a 14" bundled pipe consisting of 2-2" poly glycol lines and 1-3" production line. For all new wells, Newfield. Refer to Topographic Map "C" for the proposed location of the proposed flow line. Flow lines will be tan and will be constructed using the following procedures:

**Clearing and Grading:** No clearing or grading of the ROW will be required. The centerline of the proposed route will be staked prior to installation. Flow lines shall be placed as close to existing roads as possible without interfering with normal road travel or road maintenance activities. Due to the proximity of existing facilities, no temporary use or construction/storage areas are anticipated. If necessary, temporary use or construction/storage areas will be identified on a topographic map included in the approved permit.

**Installation:** The proposed flow lines will be installed 4-6" above the ground. For portions along existing two-track and primary access roads, lengths of pipe will be strung out in the borrow ditch,

welded together, and rolled or dragged into place with heavy equipment. For pipelines that are installed cross-country (not along existing or proposed roads), travel along the lines will be infrequent and for maintenance needs only. No installation activities will be performed during periods when the soil is too wet to adequately support installation equipment. If such equipment creates ruts in excess of three (3) inches deep, the soil will be deemed too wet to adequately support the equipment.

Termination and Final Reclamation: After abandonment of the associated production facilities, the flow lines will be cut and removed, and any incidental surface disturbance reclaimed. Reclamation procedures will follow those outlined in the Castle Peak and Eight Mile Flat Reclamation and Weed Management Plan.

- a) Newfield Production Company is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, Newfield is to immediately stop work that might further disturb such materials and contact the Authorized Officer.
- b) Newfield Production will control noxious weeds along rights-of-way for roads, pipelines, well sites or other applicable facilities. On State administered land it is required that a Pesticide Use Proposal shall be submitted and given approval prior to the application of herbicides or other possible hazardous chemicals.
- c) Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on State Lands after the conclusion of drilling operations or at any other time without State authorization. However, if State authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities.

### **Water Disposal**

After first production, if the production water meets quality guidelines, it will be transported to the Ashley, Monument Butte, Jonah, South Wells Draw and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project. Water not meeting quality criteria, will be disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E), Federally approved surface disposal facilities or at a State of Utah approved surface disposal facilities.

### **Additional Surface Stipulations**

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws and regulations, Onshore Oil and Gas Orders, the approved plan of operations and any applicable Notice to Lessees. A copy of these conditions will be furnished to the field representative to ensure compliance.

### **Hazardous Material Declaration**

Newfield Production Company guarantees that during the drilling and completion of the GMBU 2-36-8-17H, Newfield will not use, produce, store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Superfund Amendments and Reauthorization Act (SARA) of 1986. Newfield also guarantees that during the drilling and completion of the GMBU 2-36-8-17H Newfield will use, produce, store, transport or dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.



A complete copy of the approved APD, if applicable, shall be on location during the construction of the location and drilling activities.

Newfield Production Company or a contractor employed by Newfield Production shall contact the State office at (801) 722-3417, 48 hours prior to construction activities.

The State office shall be notified upon site completion prior to moving on the drilling rig.

13. **LESSEE'S OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION:**

Representative

Name: Tim Eaton  
Address: Newfield Production Company  
Route 3, Box 3630  
Myton, UT 84052  
Telephone: (435) 646-3721

Certification

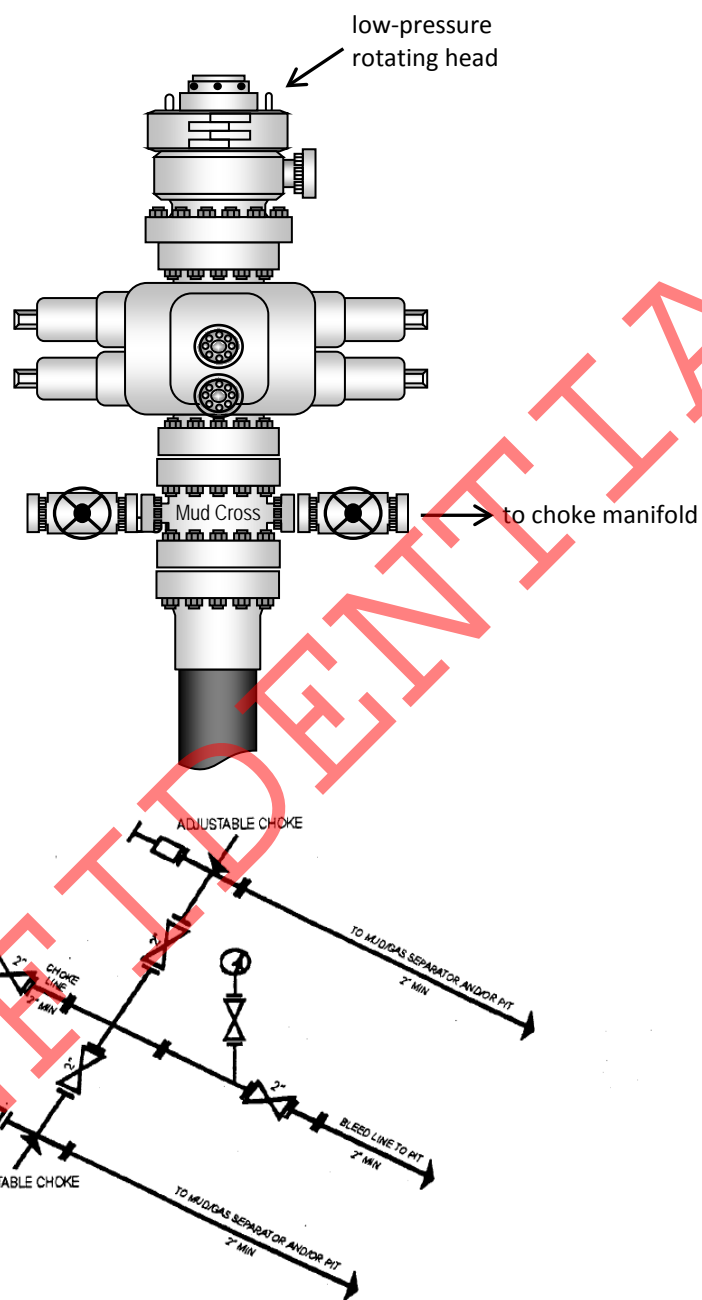
Please be advised that Newfield Production Company is considered to be the operator of well #2-36-8-17H, NW/NE Section 36, T8S, R17E, Uintah County, Utah and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Bond #B001834.

I hereby certify that the proposed drill site and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of the 18 U.S.C. 1001 for the filing of a false statement.

\_\_\_\_11/17/11\_\_\_\_\_  
Date

\_\_\_\_\_  
Mandie Crozier  
Regulatory Analyst  
Newfield Production Company

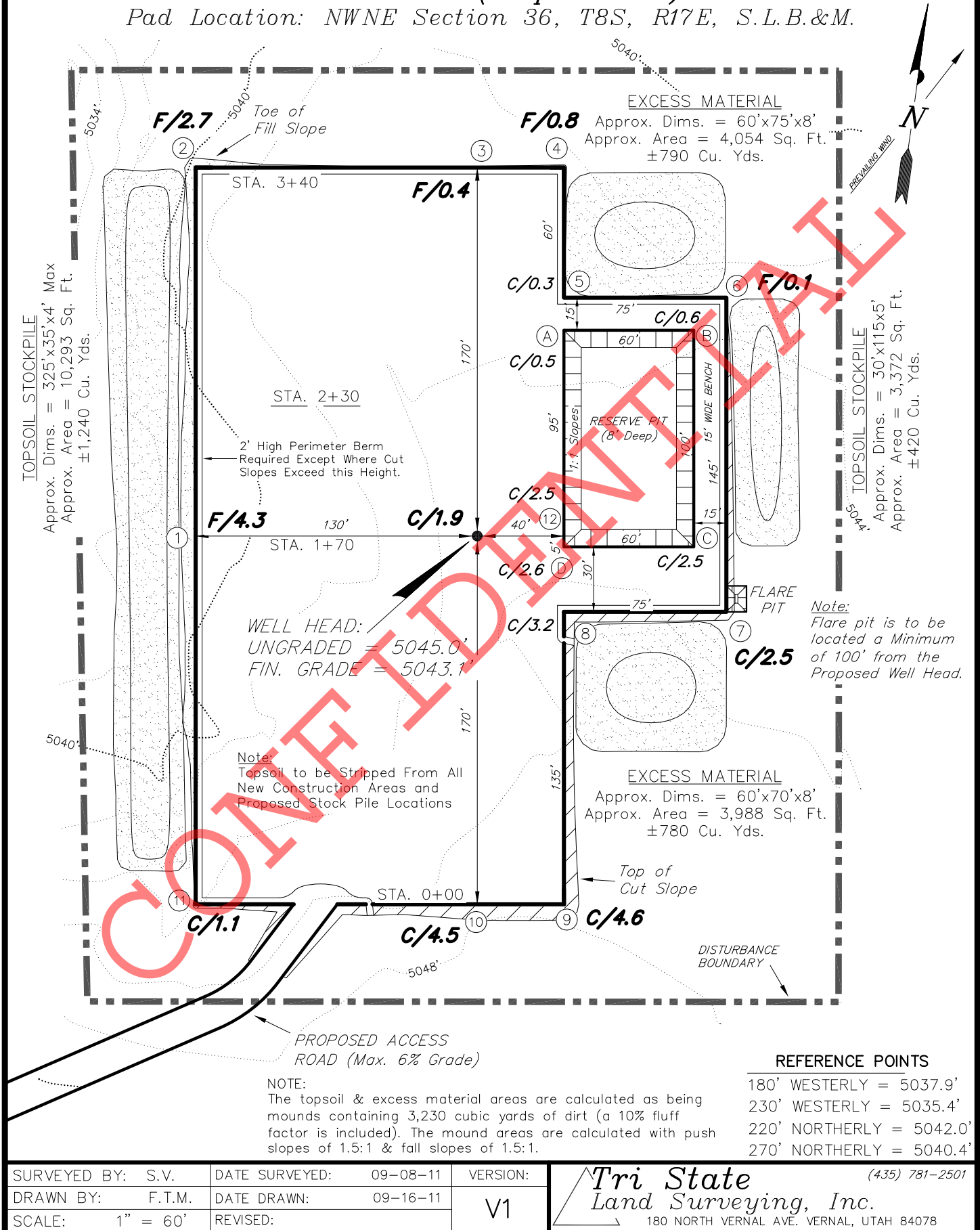
## Typical 2M BOP stack configuration



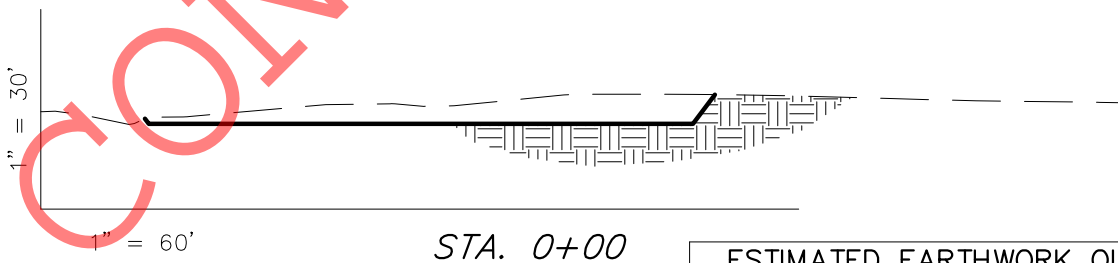
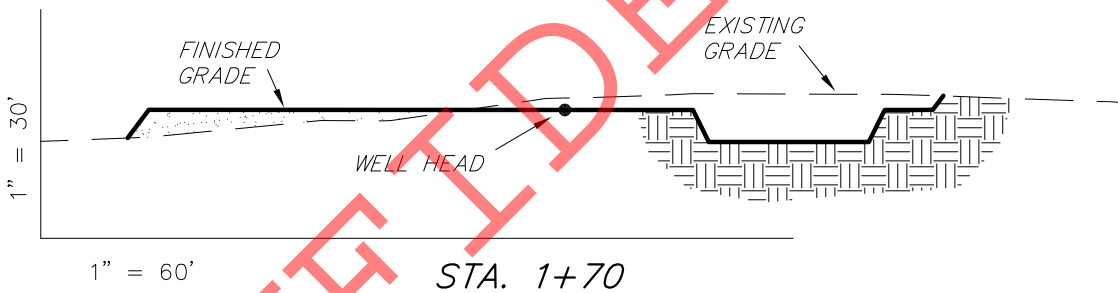
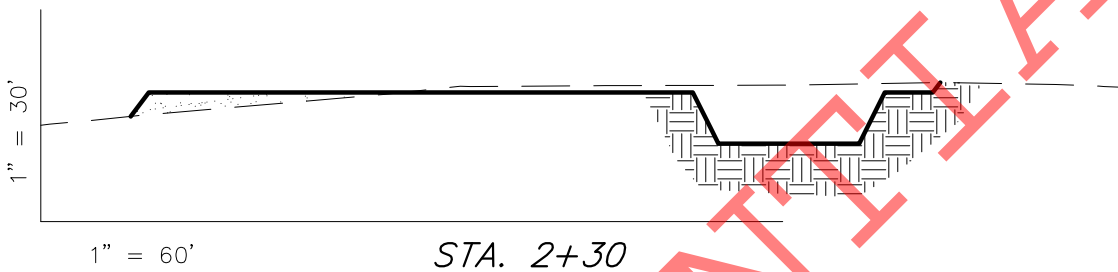
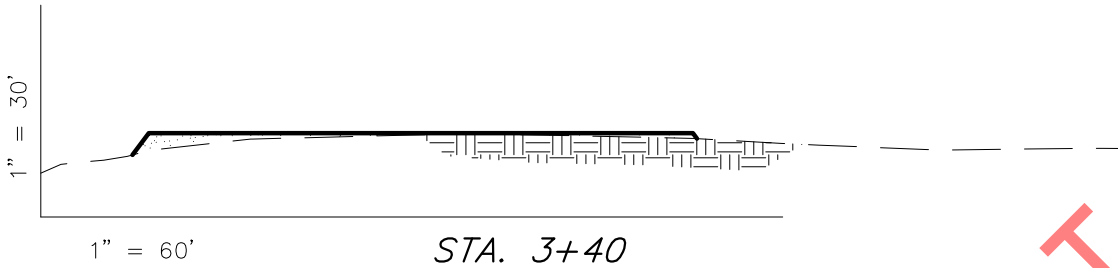
2M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY

**NEWFIELD EXPLORATION COMPANY****PROPOSED LOCATION LAYOUT****2-36-8-17H (Proposed Well)**

Pad Location: NWNE Section 36, T8S, R17E, S.L.B.&amp;M.



RECEIVED: November 17, 2011

**NEWFIELD EXPLORATION COMPANY****CROSS SECTIONS****2-36-8-17H (Proposed Well)***Pad Location: NWNE Section 36, T8S, R17E, S.L.B.&M.*

NOTE:  
UNLESS OTHERWISE  
NOTED ALL CUT/FILL  
SLOPES ARE AT 1.5:1

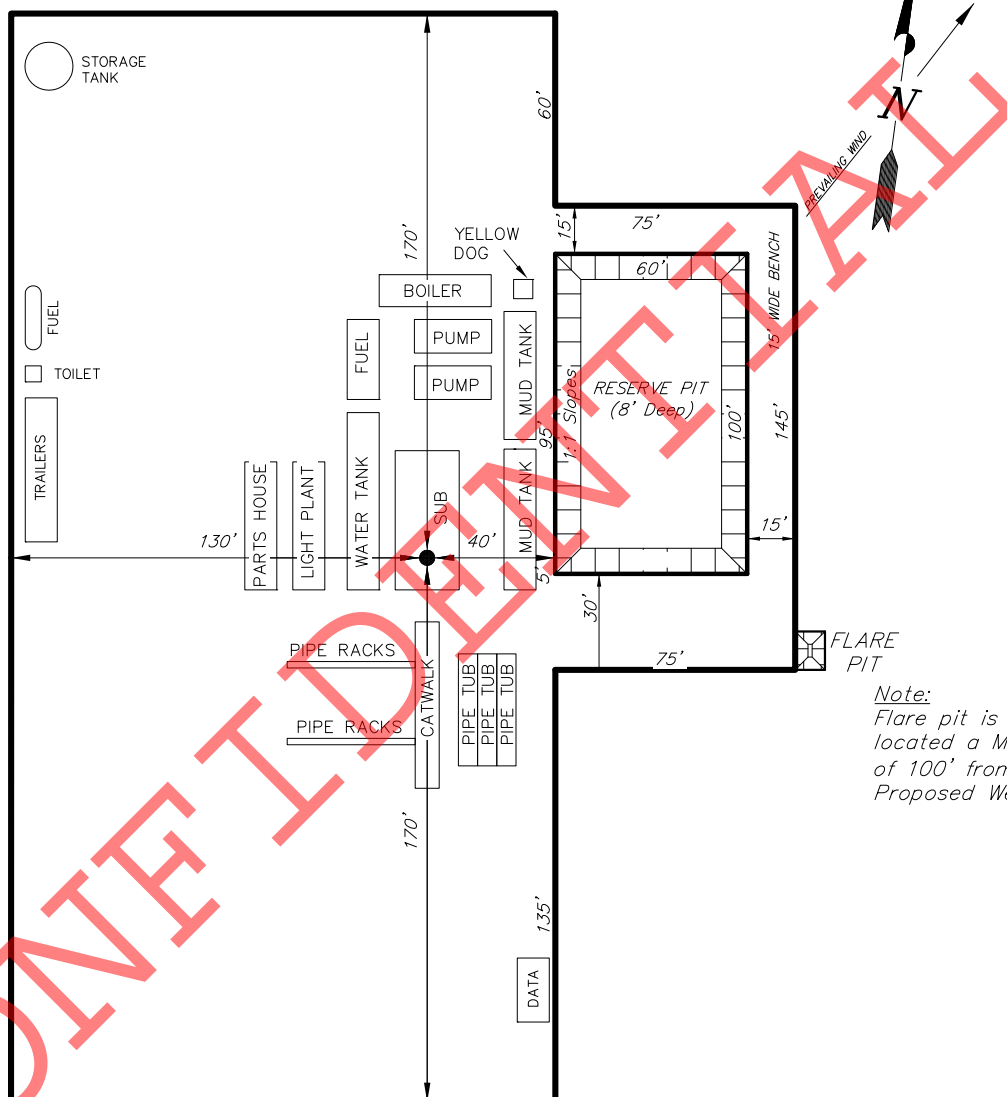
**ESTIMATED EARTHWORK QUANTITIES**  
(No Shrink or swell adjustments have been used)  
(Expressed in Cubic Yards)

| ITEM   | CUT   | FILL  | 6" TOPSOIL                                | EXCESS |
|--------|-------|-------|---|--------|
| PAD    | 1,830 | 1,820 | Topsoil is not included in Pad Cut Volume | 10     |
| PIT    | 1,420 | 0     |   | 1,420  |
| TOTALS | 3,250 | 1,820 | 1,510                                     | 1,430  |

|                   |                         |          |
|-------------------|-------------------------|----------|
| SURVEYED BY: S.V. | DATE SURVEYED: 09-08-11 | VERSION: |
| DRAWN BY: F.T.M.  | DATE DRAWN: 09-16-11    | V1       |
| SCALE: 1" = 60'   | REVISED:                |          |

**Tri State** (435) 781-2501  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

RECEIVED: November 17, 2011

**NEWFIELD EXPLORATION COMPANY****TYPICAL RIG LAYOUT****2-36-8-17H (Proposed Well)***Pad Location: NWNE Section 36, T8S, R17E, S.L.B.&M.*

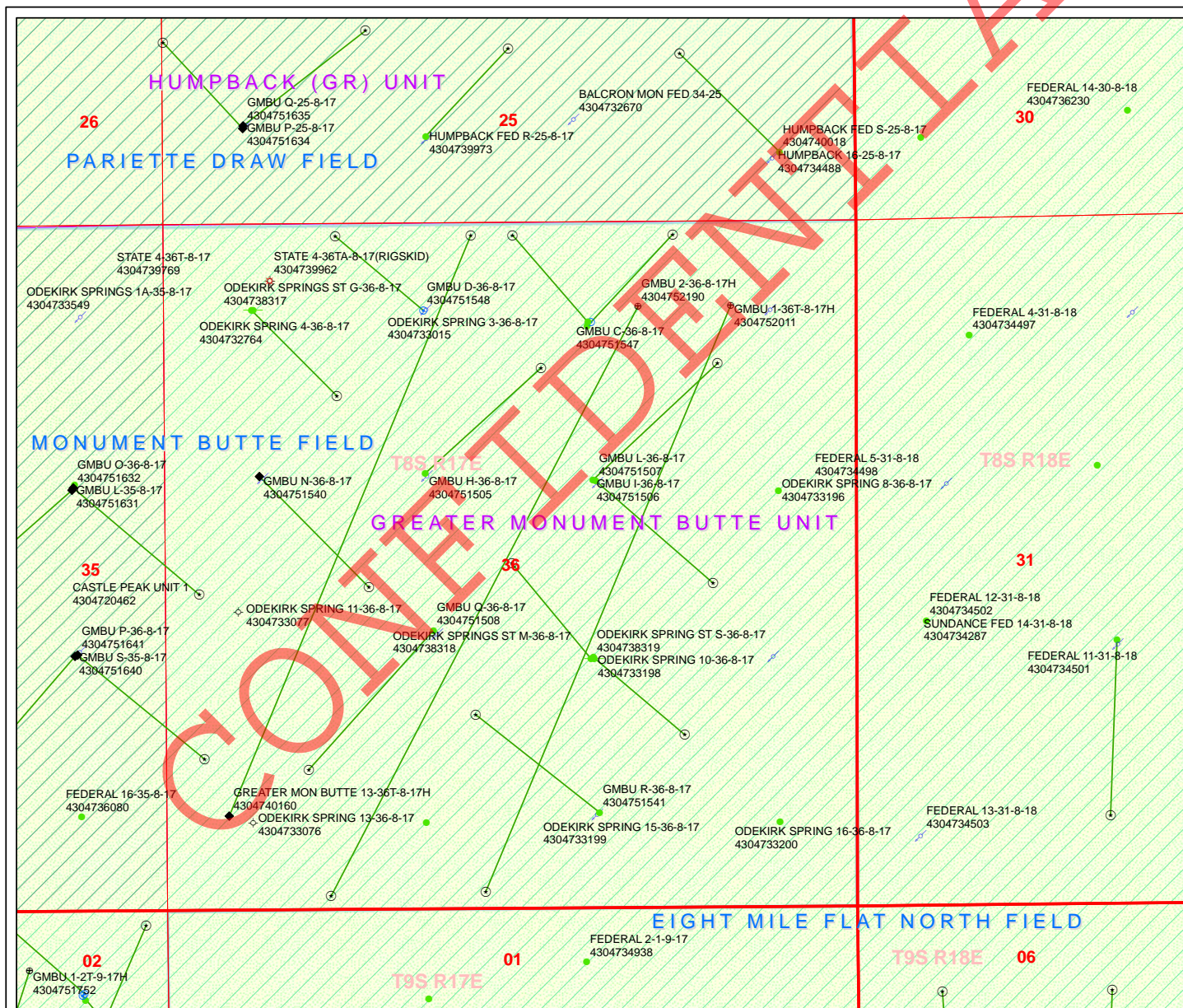
*Note:*  
Flare pit is to be  
located a Minimum  
of 100' from the  
Proposed Well Head.

|                   |                         |          |
|-------------------|-------------------------|----------|
| SURVEYED BY: S.V. | DATE SURVEYED: 09-08-11 | VERSION: |
| DRAWN BY: F.T.M.  | DATE DRAWN: 09-16-11    | V1       |
| SCALE: 1" = 60'   | REVISED:                |          |

**Tri State** (435) 781-2501  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

RECEIVED: November 17, 2011

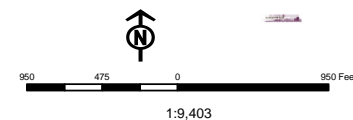




**API Number: 4304752190**  
**Well Name: GMBU 2-36-8-17H**  
**Township T0.8 . Range R1.7 . Section 36**  
**Meridian: SLBM**  
Operator: NEWFIELD PRODUCTION COMPANY

Map Prepared:  
Map Produced by Diana Mason

| Units        | Wells Query                        |
|--------------|------------------------------------|
| STATUS       | Status                             |
| ACTIVE       | APD - Approved Permit              |
| EXPLORATORY  | DRL - Spudded (Drilling Commenced) |
| GAS STORAGE  | GW - Gas Injection                 |
| NF PP OIL    | GS - Gas Storage                   |
| NF SECONDARY | LA - Location Abandoned            |
| PI OIL       | LOC - New Location                 |
| PP GAS       | OPS - Operation Suspended          |
| PP GEOTHERM  | PA - Plugged Abandoned             |
| PP OIL       | PGW - Producing Gas Well           |
| SECONDARY    | POW - Producing Oil Well           |
| TERMINATED   | RET - Returned APD                 |
| Fields       | SGW - Shut-in Gas Well             |
| Unknown      | SOW - Shut-in Oil Well             |
| ABANDONED    | TA - Temp. Abandoned               |
| ACTIVE       | TW - Test Well                     |
| COMBINED     | WDW - Water Disposal               |
| INACTIVE     | WW - Water Injection Well          |
| STORAGE      | WSW - Water Supply Well            |
| TERMINATED   |                                    |



## Diana Mason - APD Approvals for GMBU

---

**From:** Diana Mason  
**Subject:** APD Approvals for GMBU

---

United States Department of the Interior

BUREAU OF LAND MANAGEMENT  
Utah State Office  
P.O. Box 45155  
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160  
(UT-922)

November 18, 2011

Memorandum

**To:** Assistant District Manager Minerals, Vernal District  
**From:** Michael Coulthard, Petroleum Engineer  
**Subject:** 2011 Plan of Development Greater Monument Butte Unit, Duchesne and Uintah Counties, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2011 within the Greater Monument Butte Unit, Duchesne and Uintah Counties, Utah.

| API #                     | WELL NAME  | LOCATION |
|---------------------------|--|----------|
| (Proposed PZ GREEN RIVER) |  |          |
| 43-013-51046              | GMBU Q-4-9-17 Sec 04 T09S R17E 1916 FSL 0494 FWL<br>BHL Sec 04 T09S R17E 1321 FSL 1846 FWL |          |
| 43-013-51047              | GMBU S-4-9-17 Sec 04 T09S R17E 2050 FSL 1960 FEL<br>BHL Sec 04 T09S R17E 1049 FSL 1089 FEL |          |
| 43-013-51048              | GMBU O-4-9-17 Sec 04 T09S R17E 1712 FNL 1222 FWL<br>BHL Sec 04 T09S R17E 2505 FNL 0125 FWL |          |
| 43-013-51049              | GMBU J-5-9-17 Sec 04 T09S R17E 1708 FNL 1243 FWL<br>BHL Sec 05 T09S R17E 1138 FNL 0118 FEL |          |
| 43-013-51050              | GMBU I-5-9-17 Sec 05 T09S R17E 1796 FNL 0627 FEL<br>BHL Sec 05 T09S R17E 1228 FNL 1387 FEL |          |
| 43-013-51051              | GMBU L-5-9-17 Sec 05 T09S R17E 1810 FNL 0643 FEL<br>BHL Sec 05 T09S R17E 2385 FSL 1656 FEL |          |

43-013-51052 GMBU D-9-9-17 Sec 04 T09S R17E 0776 FSL 0686 FWL  
BHL Sec 09 T09S R17E 0135 FNL 1473 FWL

43-013-51065 GMBU 2-36-8-15H Sec 36 T08S R15E 0934 FNL 2061 FEL  
Lateral 1 Sec 36 T08S R15E 0190 FSL 1180 FWL

43-047-52190 GMBU 2-36-8-17H Sec 36 T08S R17E 0649 FNL 1667 FEL  
BHL Sec 36 T08S R17E 0100 FSL 1250 FWL

This office has no objection to permitting the wells at this time.

/s/ Michael L. Coulthard

bcc: File - Greater Monument Butte Unit  
Division of Oil Gas and Mining  
Central Files  
Agr. Sec. Chron  
Fluid Chron

MCoulthard:mc:11-18-11

-----Original Message-----

From: Diana Mason [<mailto:dianawhitney@utah.gov>]

Sent: Tuesday, November 22, 2011 7:26 AM

To: Coulthard, Michael L

Subject: Fwd: APD Approvals

Oops sorry..Forgot some

11/7/20114899 43013510500000 NEWFIELD GMBU I-5-9-17DUCHESNE  
11/7/20114900 43013510510000 NEWFIELD GMBU L-5-9-17DUCHESNE  
11/7/20114901 43013510520000 NEWFIELD GMBU D-9-9-17DUCHESNE

>>> Diana Mason 11/22/2011 7:23 AM >>>  
Hi Mickey,

Do you have an approval for the following APDs?

11/7/20114894 43013510460000 NEWFIELD GMBU Q-4-9-17DUCHESNE  
11/7/20114895 43013510470000 NEWFIELD GMBU S-4-9-17DUCHESNE  
11/7/20114896 43013510480000 NEWFIELD GMBU O-4-9-17DUCHESNE  
11/7/20114897 43013510490000 NEWFIELD GMBU J-5-9-17DUCHESNE

Thank you,  
Diana



|  |  |       |       |  |
|--|--|-------|-------|--|
| Well Name                                | NEWFIELD PRODUCTION COMPANY GMBU 2-36-8-17H 4304752190 |       |       |  |
| String                                   | Surf   | Prod  | P2    |  |
| Casing Size(in)                          | 8.625  | 5.500 | 4.500 |  |
| Setting Depth (TVD)                      | 300  | 6251  | 6107  |  |
| Previous Shoe Setting Depth (TVD)        | 0  | 300   | 6251  |  |
| Max Mud Weight (ppg)                     | 8.3  | 9.0   | 9.0   |  |
| BOPE Proposed (psi)                      | 0  | 2000  | 2000  |  |
| Casing Internal Yield (psi)              | 2950   | 9190  | 10690 |  |
| Operators Max Anticipated Pressure (psi) | 2626   |       | 8.3   |  |

|   |  |       |   |
|---|--|-------|---|
| Calculations                                  | Surf String  | 8.625 | "   |
| Max BHP (psi)                                 | .052*Setting Depth*MW=                             | 129   |   |
|   |  |       | BOPE Adequate For Drilling And Setting Casing at Depth? |
| MASP (Gas) (psi)                              | Max BHP-(0.12*Setting Depth)=                      | 93    | NO  |
| MASP (Gas/Mud) (psi)                          | Max BHP-(0.22*Setting Depth)=                      | 63    | NO OK   |
|   |  |       | *Can Full Expected Pressure Be Held At Previous Shoe?   |
| Pressure At Previous Shoe                     | Max BHP-.22*(Setting Depth - Previous Shoe Depth)= | 63    | NO OK   |
| Required Casing/BOPE Test Pressure=           |  | 300   | psi   |
| *Max Pressure Allowed @ Previous Casing Shoe= |  | 0     | psi *Assumes 1psi/ft frac gradient                      |

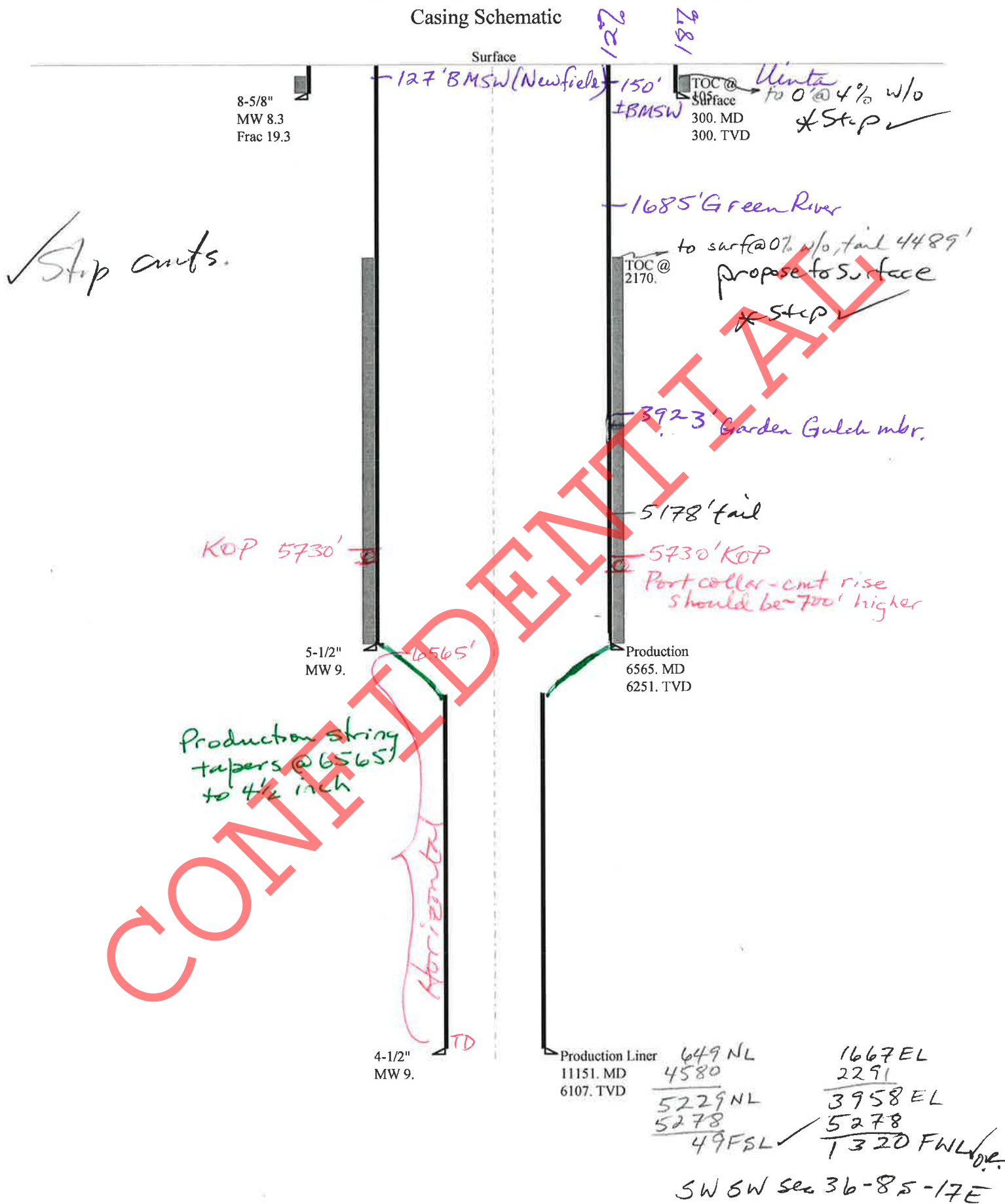
|   |  |       |   |
|---|--|-------|---|
| Calculations                                  | Prod String  | 5.500 | "   |
| Max BHP (psi)                                 | .052*Setting Depth*MW=                             | 2925  |   |
|   |  |       | BOPE Adequate For Drilling And Setting Casing at Depth? |
| MASP (Gas) (psi)                              | Max BHP-(0.12*Setting Depth)=                      | 2175  | NO  |
| MASP (Gas/Mud) (psi)                          | Max BHP-(0.22*Setting Depth)=                      | 1550  | YES OK  |
|   |  |       | *Can Full Expected Pressure Be Held At Previous Shoe?   |
| Pressure At Previous Shoe                     | Max BHP-.22*(Setting Depth - Previous Shoe Depth)= | 1616  | NO Reasonable for area                                  |
| Required Casing/BOPE Test Pressure=           |  | 2000  | psi   |
| *Max Pressure Allowed @ Previous Casing Shoe= |  | 300   | psi *Assumes 1psi/ft frac gradient                      |

|   |  |       |   |
|---|--|-------|---|
| Calculations                                  | P2 String  | 4.500 | "   |
| Max BHP (psi)                                 | .052*Setting Depth*MW=                             | 2858  |   |
|   |  |       | BOPE Adequate For Drilling And Setting Casing at Depth? |
| MASP (Gas) (psi)                              | Max BHP-(0.12*Setting Depth)=                      | 2125  | NO  |
| MASP (Gas/Mud) (psi)                          | Max BHP-(0.22*Setting Depth)=                      | 1514  | YES   |
|   |  |       | *Can Full Expected Pressure Be Held At Previous Shoe?   |
| Pressure At Previous Shoe                     | Max BHP-.22*(Setting Depth - Previous Shoe Depth)= | 2890  | YES   |
| Required Casing/BOPE Test Pressure=           |  | 2000  | psi   |
| *Max Pressure Allowed @ Previous Casing Shoe= |  | 6251  | psi *Assumes 1psi/ft frac gradient                      |

|   |  |  |   |
|---|--|--|---|
| Calculations                                  | String   |  | "   |
| Max BHP (psi)                                 | .052*Setting Depth*MW=                             |  |   |
|   |  |  | BOPE Adequate For Drilling And Setting Casing at Depth? |
| MASP (Gas) (psi)                              | Max BHP-(0.12*Setting Depth)=                      |  | NO  |
| MASP (Gas/Mud) (psi)                          | Max BHP-(0.22*Setting Depth)=                      |  | NO  |
|   |  |  | *Can Full Expected Pressure Be Held At Previous Shoe?   |
| Pressure At Previous Shoe                     | Max BHP-.22*(Setting Depth - Previous Shoe Depth)= |  | NO  |
| Required Casing/BOPE Test Pressure=           |  |  | psi   |
| *Max Pressure Allowed @ Previous Casing Shoe= |  |  | psi *Assumes 1psi/ft frac gradient                      |

43047521900000 GMBU 2-36-8-17H

## Casing Schematic



|              |                                |                            |
|--------------|--------------------------------|----------------------------|
| Well name:   | 43047521900000 GMBU 2-36-8-17H |                            |
| Operator:    | NEWFIELD PRODUCTION COMPANY    |                            |
| String type: | Surface                        | Project ID:<br>43-04752190 |
| Location:    | DUCHESE COUNTY                 |                            |

**Design parameters:****Collapse**

Mud weight: 8.330 ppg  
Design is based on evacuated pipe.

**Minimum design factors:****Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 74 °F  
Bottom hole temperature: 78 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 100 ft  
Cement top: 105 ft

**Burst**

Max anticipated surface pressure: 264 psi  
Internal gradient: 0.120 psi/ft  
Calculated BHP 300 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.70 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

Tension is based on air weight.  
Neutral point: 262 ft

**Non-directional string.****Re subsequent strings:**

Next setting depth: 6,251 ft  
Next mud weight: 9.000 ppg  
Next setting BHP: 2,923 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 300 ft  
Injection pressure: 300 psi

| Run Seq | Segment Length (ft) | Size (in)               | Nominal Weight (lbs/ft) | Grade            | End Finish           | True Vert Depth (ft) | Measured Depth (ft) | Drift Diameter (in)     | Est. Cost (\$)        |
|---------|---------------------|-------------------------|-------------------------|------------------|----------------------|----------------------|---------------------|-------------------------|-----------------------|
| 1       | 300                 | 8.625                   | 24.00                   | J-55             | ST&C                 | 300                  | 300                 | 7.972                   | 1544                  |
| Run Seq | Collapse Load (psi) | Collapse Strength (psi) | Collapse Design Factor  | Burst Load (psi) | Burst Strength (psi) | Burst Design Factor  | Tension Load (kips) | Tension Strength (kips) | Tension Design Factor |
| 1       | 130                 | 1370                    | 10.557                  | 300              | 2950                 | 9.83                 | 7.2                 | 244                     | 33.90 J               |

Prepared by: Helen Sadik-Macdonald  
Div of Oil, Gas & Mining

Phone: 801 538-5357  
FAX: 801-359-3940

Date: February 7, 2012  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 300 ft, a mud weight of 8.33 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

|              |                                       |                            |
|--------------|---------------------------------------|----------------------------|
| Well name:   | <b>43047521900000 GMBU 2-36-8-17H</b> |                            |
| Operator:    | <b>NEWFIELD PRODUCTION COMPANY</b>    |                            |
| String type: | Production                            | Project ID:<br>43-04752190 |
| Location:    | DUCHESNE COUNTY                       |                            |

**Design parameters:****Collapse**

Mud weight: 9.000 ppg  
Design is based on evacuated pipe.

**Minimum design factors:****Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 74 °F  
Bottom hole temperature: 162 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,000 ft

Cement top: 2,170 ft

**Burst**

Max anticipated surface pressure: 1,547 psi  
Internal gradient: 0.220 psi/ft  
Calculated BHP 2,923 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.60 (B)

Tension is based on air weight.  
Neutral point: 5,399 ft

**Directional Info - Build & Hold**

Kick-off point 5730 ft  
Departure at shoe: 537 ft  
Maximum dogleg: 11 °/100ft  
Inclination at shoe: 91.8 °

| Run Seq | Segment Length (ft) | Size (in) | Nominal Weight (lbs/ft) | Grade | End Finish | True Vert Depth (ft) | Measured Depth (ft) | Drift Diameter (in) | Est. Cost (\$) |
|---------|---------------------|-----------|-------------------------|-------|------------|----------------------|---------------------|---------------------|----------------|
| 1       | 6565                | 5.5       | 20.00                   | N-80  | LT&C       | 6251                 | 6565                | 4.653               | 43546          |

| Run Seq | Collapse Load (psi) | Collapse Strength (psi) | Collapse Design Factor | Burst Load (psi) | Burst Strength (psi) | Burst Design Factor | Tension Load (kips) | Tension Strength (kips) | Tension Design Factor |
|---------|---------------------|-------------------------|------------------------|------------------|----------------------|---------------------|---------------------|-------------------------|-----------------------|
| 1       | 2923                | 8830                    | 3.021                  | 2923             | 9190                 | 3.14                | 125                 | 428                     | 3.42 J                |

Prepared by: Helen Sadik-Macdonald  
Div of Oil, Gas & Mining

Phone: 801 538-5357  
FAX: 801-359-3940

Date: February 7, 2012  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 6251 ft, a mud weight of 9 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

|              |                                       |                            |
|--------------|---------------------------------------|----------------------------|
| Well name:   | <b>43047521900000 GMBU 2-36-8-17H</b> |                            |
| Operator:    | <b>NEWFIELD PRODUCTION COMPANY</b>    |                            |
| String type: | Production Liner                      | Project ID:<br>43-04752190 |
| Location:    | DUCHESNE COUNTY                       |                            |

**Design parameters:****Collapse**

Mud weight: 9.000 ppg  
Design is based on evacuated pipe.

**Minimum design factors:****Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 74 °F  
Bottom hole temperature: 159 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,000 ft

**Burst**

Max anticipated surface pressure: 1,512 psi  
Internal gradient: 0.220 psi/ft  
Calculated BHP 2,855 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.60 (B)

Tension is based on air weight.  
Neutral point: 0 ft

Liner top: 6,565 ft

**Directional Info - Build & Hold**

Kick-off point: 5730 ft  
Departure at shoe: 5121 ft  
Maximum dogleg: 0 °/100ft  
Inclination at shoe: 91.8 °

| Run Seq | Segment Length (ft) | Size (in)               | Nominal Weight (lbs/ft) | Grade            | End Finish           | True Vert Depth (ft) | Measured Depth (ft) | Drift Diameter (in)     | Est. Cost (\$)        |
|---------|---------------------|-------------------------|-------------------------|------------------|----------------------|----------------------|---------------------|-------------------------|-----------------------|
| 1       | 4551                | 4.5                     | 11.60                   | P-110            | LT&C                 | 6107                 | 11151               | 3.875                   | 21927                 |
| Run Seq | Collapse Load (psi) | Collapse Strength (psi) | Collapse Design Factor  | Burst Load (psi) | Burst Strength (psi) | Burst Design Factor  | Tension Load (kips) | Tension Strength (kips) | Tension Design Factor |
| 1       | 2855                | 7580                    | 2.655                   | 2887             | 10690                | 3.70                 | -1.7                | 279                     | 99.99 J               |

Prepared by: Helen Sadik-Macdonald  
Div of Oil, Gas & Mining

Phone: 801-538-5357  
FAX: 801-359-3940

Date: February 7, 2012  
Salt Lake City, Utah

**Remarks:**

For this liner string, the top is rounded to the nearest 100 ft. Collapse is based on a vertical depth of 6107 ft, a mud weight of 9 ppg. The Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

**From:** Jim Davis  
**To:** APD APPROVAL  
**CC:** mcrozier@newfield.com; teaton@newfield.com  
**Date:** 2/28/2012 12:57 PM  
**Subject:** Two APD approvals for Newfield

The following wells have been approved by SITLA including arch and paleo clearance.

4301351065 GMBU 2-36-8-15H  
4304752190 GMBU 2-36-8-17H

-Jim

Jim Davis  
Utah Trust Lands Administration  
jimdavis1@utah.gov  
Phone: (801) 538-5156

CONFIDENTIAL

# **ON-SITE PREDRILL EVALUATION**

## **Utah Division of Oil, Gas and Mining**

**Operator** NEWFIELD PRODUCTION COMPANY  
**Well Name** GMBU 2-36-8-17H  
**API Number** 43047521900000 **APD No** 4924 **Field/Unit** MONUMENT BUTTE  
**Location:** 1/4,1/4 NWNE **Sec** 36 **Tw** 8.0S **Rng** 17.0E 649 FNL 1667 FEL  
**GPS Coord (UTM)** 589407 4437141 **Surface Owner**

### **Participants**

Tim Eaton - Newfield Exploration, Mark Jones - DOGM, Chris Jensen- DOGM, Mark Reinbold - DOGM, Forrest Bird - Newfileld

### **Regional/Local Setting & Topography**

This location is approximately 17.2 road miles south east of Myton, Utah nearly 1.7 miles east of the Uintah/ Duchesne County line. The location is placed in a relatively flat portion of the Pariette Bench area next to a historic jeep trail and many other petroleum wells and activiites. Location is bounded by an ephemeral stream approximately 1/2 mile to the north, drawn but not named , on a DRG 24k map. Location is also bounded on the South by an additional unnamed stream drawn on a 24k DRG.

### **Surface Use Plan**

**Current Surface Use**  
Wildlfe Habitat

| <b>New Road Miles</b> | <b>Well Pad</b>                    | <b>Src Const Material</b> | <b>Surface Formation</b> |
|-----------------------|------------------------------------|---------------------------|--------------------------|
| 0.031                 | <b>Width</b> 245 <b>Length</b> 340 | Onsite                    | UNTA                     |

**Ancillary Facilities** N

**Waste Management Plan Adequate?** Y

### **Environmental Parameters**

**Affected Floodplains and/or Wetlands** N

#### **Flora / Fauna**

Flora- Galleta, Shadscale, halogeton, Rabbit brush, Cheatgrass and Russian thistle present in moderatley sparse concentrations typical of the desert ecosytems in the region.  
Fauna- None observed during Presite investigations. Pronghorn, rabbit and prarie dogs have been known to inhabit the area

#### **Soil Type and Characteristics**

soils are described as very flaggy loams Over sandstone bedrock of a motto-rock outcrop complex

#### **Erosion Issues** Y

soil type is highly erodeable. Sparcely vegetated surface compounds erosion potential.

#### **Sedimentation Issues** Y

sedimentation is to be expected if erosion is not controlled during heavy precipitation events and spring runoff

**Site Stability Issues** N

**Drainage Diversion Required?** N

**Berm Required?** Y

location berms can help prevent the transportation of sediments and other pollutants off-site.

**Erosion Sedimentation Control Required?** N

surrounding topography is fairly flat

**Paleo Survey Run?** Y    **Paleo Potential Observed?** N    **Cultural Survey Run?** Y    **Cultural Resources?** N

### Reserve Pit

#### Site-Specific Factors

#### Site Ranking

|  |                   |                           |
|--|-------------------|---------------------------|
| <b>Distance to Groundwater (feet)</b>    | >200              | 0                         |
| <b>Distance to Surface Water (feet)</b>  | >1000             | 0                         |
| <b>Dist. Nearest Municipal Well (ft)</b> | >5280             | 0                         |
| <b>Distance to Other Wells (feet)</b>    |                   | 20                        |
| <b>Native Soil Type</b>                  | High permeability | 20                        |
| <b>Fluid Type</b>                        | Fresh Water       | 5                         |
| <b>Drill Cuttings</b>                    | Normal Rock       | 0                         |
| <b>Annual Precipitation (inches)</b>     | 10 to 20          | 5                         |
| <b>Affected Populations</b>              |                   |                           |
| <b>Presence Nearby Utility Conduits</b>  | Not Present       | 0                         |
| <b>Final Score</b>                       |                   | 50    1 Sensitivity Level |

#### Characteristics / Requirements

Reserve pit is planned to the North- Northeast of pad and will be constructed 8 feet deep with the dimensions of 100 feet wide and 60 feet long having 1:1 slopes

**Closed Loop Mud Required?** N    **Liner Required?** Y    **Liner Thickness** 16    **Pit Underlayment Required?** N

### Other Observations / Comments

Chris Jensen  
Evaluator

12/7/2011  
Date / Time



# Application for Permit to Drill Statement of Basis

2/29/2012

Utah Division of Oil, Gas and Mining

Page 1

|                  |  |               |                          |                   |            |
|------------------|--|---------------|--------------------------|-------------------|------------|
| <b>APD No</b>    | <b>API WellNo</b>                                  | <b>Status</b> | <b>Well Type</b>         | <b>Surf Owner</b> | <b>CBM</b> |
| 4924             | 43047521900000                                     | SITLA         | OW                       | S                 | No         |
| <b>Operator</b>  | NEWFIELD PRODUCTION COMPANY                        |               | <b>Surface Owner-APD</b> |                   |            |
| <b>Well Name</b> | GMBU 2-36-8-17H                                    |               | <b>Unit</b>              | GMBU (GRRV)       |            |
| <b>Field</b>     | MONUMENT BUTTE                                     |               | <b>Type of Work</b>      | DRILL             |            |
| <b>Location</b>  | NWNE 36 8S 17E S 649 FNL<br>(UTM) 589407E 4437141N |               | 1667 FEL GPS Coord       |                   |            |

## Geologic Statement of Basis

Newfield proposes to set 300 feet of surface casing at this location. The base of the moderately saline water at this location is estimated to be at approximately 150 feet. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the center of section 36. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. The proposed casing and cement program should adequately protect any useable ground water.

Brad Hill  
APD Evaluator

1/18/2012  
Date / Time

## Surface Statement of Basis

No items of environmental concern were observed at this location. This pad is sited away from any major drainages, ephemeral streams and no surface flow (sheet or stream) was noted on or through proposed site. No listed species or cultural resources were observed during the presite investigations. The location should be bermed to prevent spills from leaving the confines of the pad. Fencing around the reserve pit will be necessary once the well is drilled to prevent wildlife and livestock from becoming a problem. Drainages should be diverted around and away from wellpad and access road. A synthetic liner of 16 mils (minimum) should be utilized in the reserve pit.

Chris Jensen  
Onsite Evaluator

12/7/2011  
Date / Time

## Conditions of Approval / Application for Permit to Drill

|                 |  |
|-----------------|--|
| <b>Category</b> | <b>Condition</b>   |
| Pits            | A synthetic liner with a minimum thickness of 16 mils shall be properly installed and maintained in the reserve pit. |
| Surface         | The well site shall be bermed to prevent fluids from leaving the pad.  |
| Surface         | The reserve pit shall be fenced upon completion of drilling operations.  |
| Surface         | Drainages adjacent to the proposed pad shall be diverted around the location.  |

RECEIVED: February 29, 2012

## WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 11/17/2011

API NO. ASSIGNED: 43047521900000

WELL NAME: GMBU 2-36-8-17H

OPERATOR: NEWFIELD PRODUCTION COMPANY (N2695)

PHONE NUMBER: 435 646-4825

CONTACT: Mandie Crozier

PROPOSED LOCATION: NWNE 36 080S 170E

Permit Tech Review: ☒

SURFACE: 0649 FNL 1667 FEL

Engineering Review: ☒

BOTTOM: 0100 FSL 1250 FWL

Geology Review: ☒

COUNTY: UINTAH

LATITUDE: 40.07980

LONGITUDE: -109.95137

UTM SURF EASTINGS: 589407.00

NORTHINGS: 4437141.00

FIELD NAME: MONUMENT BUTTE

LEASE TYPE: 3 - State

LEASE NUMBER: ML-44305

PROPOSED PRODUCING FORMATION(S): GREEN RIVER

SURFACE OWNER: 3 - State

COALBED METHANE: NO

## RECEIVED AND/OR REVIEWED:

☒ PLAT☒ Bond: STATE/FEE - B001834☐ Potash☐ Oil Shale 190-5☐ Oil Shale 190-3☐ Oil Shale 190-13☒ Water Permit: 437478☐ RDCC Review:☐ Fee Surface Agreement☐ Intent to Commingle

Commingle Approved

## LOCATION AND SITING:

☐ R649-2-3.

Unit: GMBU (GRRV)

☐ R649-3-2. General☐ R649-3-3. Exception☒ Drilling Unit

Board Cause No: Cause 213-11

Effective Date: 11/30/2009

Siting: Suspends General Siting

☐ R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 5 - Statement of Basis - bhill  
12 - Cement Volume (3) - ddoucet  
25 - Surface Casing - hmacdonald  
27 - Other - bhill  
28 - Other2 - bhill

RECEIVED: February 29, 2012



## State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

### Permit To Drill

\*\*\*\*\*

**Well Name:** GMBU 2-36-8-17H

**API Well Number:** 43047521900000

**Lease Number:** ML-44305

**Surface Owner:** STATE

**Approval Date:** 2/29/2012

**Issued to:**

NEWFIELD PRODUCTION COMPANY , Rt 3 Box 3630 , Myton, UT 84052

**Authority:**

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 213-11. The expected producing formation or pool is the GREEN RIVER Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

**Duration:**

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

**General:**

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

**Conditions of Approval:**

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Production casing cement shall be brought up to or above the top of the unitized interval for the Greater Monument Butte Unit (Cause No. 213-11).

Cement volume for the 5 1/2" production string shall be determined from actual hole diameter in order to place cement from the pipe setting depth back to surface as indicated in the submitted drilling plan.

Surface casing shall be cemented to the surface.

In accordance with Utah Admin. R.649-3-21, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

**Additional Approvals:**

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan contact Dustin Doucet
- Significant plug back of the well contact Dustin Doucet
- Plug and abandonment of the well contact Dustin Doucet

**Notification Requirements:**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well contact Carol Daniels

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website

at <http://oilgas.ogm.utah.gov>

- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well contact Dan Jarvis

**Contact Information:**

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office  
801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office  
801-231-8956 - after office hours

**Reporting Requirements:**

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) due prior to implementation
- Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
- Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

**Approved By:**

API Well No: 43047521900000

**Approved By:**

A handwritten signature in black ink, appearing to read 'J. Rogers', written over a horizontal line.

For John Rogers  
Associate Director, Oil & Gas

|  |  |  |
|--|--|--|
| <b>STATE OF UTAH</b><br>DEPARTMENT OF NATURAL RESOURCES<br>DIVISION OF OIL, GAS, AND MINING  |  | <b>FORM 9</b>  |
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b><br><br>Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals. |  | <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b><br>ML-44305 |
| <b>1. TYPE OF WELL</b><br>Oil Well   |  | <b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>               |
| <b>2. NAME OF OPERATOR:</b><br>NEWFIELD PRODUCTION COMPANY   |  | <b>7. UNIT or CA AGREEMENT NAME:</b><br>GMBU (GRRV)        |
| <b>3. ADDRESS OF OPERATOR:</b><br>Rt 3 Box 3630 , Myton, UT, 84052   |  | <b>8. WELL NAME and NUMBER:</b><br>GMBU 2-36-8-17H         |
| <b>4. LOCATION OF WELL</b><br><b>FOOTAGES AT SURFACE:</b><br>0649 FNL 1667 FEL<br><b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b><br>Qtr/Qtr: NWNE Section: 36 Township: 08.0S Range: 17.0E Meridian: S  |  | <b>9. API NUMBER:</b><br>43047521900000                    |
| <b>PHONE NUMBER:</b><br>435 646-4825 Ext   |  | <b>9. FIELD and POOL or WILDCAT:</b><br>MONUMENT BUTTE     |
| <b>COUNTY:</b><br>UINTAH   |  | <b>STATE:</b><br>UTAH                                      |

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION   | TYPE OF ACTION  |   |  |
|--|---|---|--|
| <input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b><br>Approximate date work will start:<br><b>2/28/2013</b> | <input type="checkbox"/> ACIDIZE<br><input type="checkbox"/> CHANGE TO PREVIOUS PLANS<br><input type="checkbox"/> CHANGE WELL STATUS<br><input type="checkbox"/> DEEPEN<br><input type="checkbox"/> OPERATOR CHANGE<br><input type="checkbox"/> PRODUCTION START OR RESUME<br><input type="checkbox"/> REPERFORATE CURRENT FORMATION<br><input type="checkbox"/> TUBING REPAIR<br><input type="checkbox"/> WATER SHUTOFF<br><input type="checkbox"/> WILDCAT WELL DETERMINATION | <input type="checkbox"/> ALTER CASING<br><input type="checkbox"/> CHANGE TUBING<br><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS<br><input type="checkbox"/> FRACTURE TREAT<br><input type="checkbox"/> PLUG AND ABANDON<br><input type="checkbox"/> RECLAMATION OF WELL SITE<br><input type="checkbox"/> SIDETRACK TO REPAIR WELL<br><input type="checkbox"/> VENT OR FLARE<br><input type="checkbox"/> SI TA STATUS EXTENSION<br><input type="checkbox"/> OTHER | <input type="checkbox"/> CASING REPAIR<br><input type="checkbox"/> CHANGE WELL NAME<br><input type="checkbox"/> CONVERT WELL TYPE<br><input type="checkbox"/> NEW CONSTRUCTION<br><input type="checkbox"/> PLUG BACK<br><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION<br><input type="checkbox"/> TEMPORARY ABANDON<br><input type="checkbox"/> WATER DISPOSAL<br><input checked="" type="checkbox"/> <b>APD EXTENSION</b><br>OTHER: <span style="border: 1px solid black; display: inline-block; width: 100px; height: 15px;"></span> |
| <input type="checkbox"/> <b>SUBSEQUENT REPORT</b><br>Date of Work Completion:  |   |   |  |
| <input type="checkbox"/> <b>SPUD REPORT</b><br>Date of Spud:   |   |   |  |
| <input type="checkbox"/> <b>DRILLING REPORT</b><br>Report Date:  |   |   |  |

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  

Newfield proposes to extend the Application for Permit to Drill.

**Approved by the**  
**Utah Division of**  
**Oil, Gas and Mining**

**Date:** February 19, 2013

**By:**

|  |                                     |                                 |
|--|-------------------------------------|---------------------------------|
| <b>NAME (PLEASE PRINT)</b><br>Mandie Crozier | <b>PHONE NUMBER</b><br>435 646-4825 | <b>TITLE</b><br>Regulatory Tech |
| <b>SIGNATURE</b><br>N/A                      | <b>DATE</b><br>2/4/2013             |                                 |



**The Utah Division of Oil, Gas, and Mining**

- State of Utah
- Department of Natural Resources

**Electronic Permitting System - Sundry Notices**

**Request for Permit Extension Validation Well Number 43047521900000**

**API:** 43047521900000

**Well Name:** GMBU 2-36-8-17H

**Location:** 0649 FNL 1667 FEL QTR NWNE SEC 36 TWP 080S RNG 170E MER S

**Company Permit Issued to:** NEWFIELD PRODUCTION COMPANY

**Date Original Permit Issued:** 2/29/2012

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

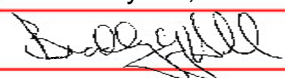
- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☒ Yes ☐ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

**Signature:** Mandie Crozier

**Date:** 2/4/2013

**Title:** Regulatory Tech **Representing:** NEWFIELD PRODUCTION COMPANY



|  |  |  |                          |
|--|--|--|--------------------------|
| STATE OF UTAH<br>DEPARTMENT OF NATURAL RESOURCES<br>DIVISION OF OIL, GAS, AND MINING   |  | FORM 9   |                          |
| 5.LEASE DESIGNATION AND SERIAL NUMBER:<br>ML-44305   |  | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME:  |                          |
| SUNDRY NOTICES AND REPORTS ON WELLS  |  | 7.UNIT or CA AGREEMENT NAME:<br>GMBU (GRRV)  |                          |
| 1. TYPE OF WELL<br>Oil Well  |  | 8. WELL NAME and NUMBER:<br>GMBU 2-36-8-17H  |                          |
| 2. NAME OF OPERATOR:<br>NEWFIELD PRODUCTION COMPANY  |  | 9. API NUMBER:<br>43047521900000   |                          |
| 3. ADDRESS OF OPERATOR:<br>Rt 3 Box 3630 , Myton, UT, 84052  |  | 9. FIELD and POOL or WILDCAT:<br>MONUMENT BUTTE  |                          |
| 4. LOCATION OF WELL<br>FOOTAGES AT SURFACE:<br>0649 FNL 1667 FEL<br>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:<br>Qtr/Qtr: NWNE Section: 36 Township: 08.0S Range: 17.0E Meridian: S   |  | COUNTY:<br>UINTAH  |                          |
|  |  | STATE:<br>UTAH   |                          |
| 11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA  |  |  |                          |
| TYPE OF SUBMISSION   |  | TYPE OF ACTION   |                          |
| <input checked="" type="checkbox"/> NOTICE OF INTENT<br>Approximate date work will start:<br>3/1/2014<br><br><input type="checkbox"/> SUBSEQUENT REPORT<br>Date of Work Completion:<br><br><input type="checkbox"/> SPUD REPORT<br>Date of Spud:<br><br><input type="checkbox"/> DRILLING REPORT<br>Report Date: |  | <input type="checkbox"/> ACIDIZE<br><input type="checkbox"/> CHANGE TO PREVIOUS PLANS<br><input type="checkbox"/> CHANGE WELL STATUS<br><input type="checkbox"/> DEEPEN<br><input type="checkbox"/> OPERATOR CHANGE<br><input type="checkbox"/> PRODUCTION START OR RESUME<br><input type="checkbox"/> REPERFORATE CURRENT FORMATION<br><input type="checkbox"/> TUBING REPAIR<br><input type="checkbox"/> WATER SHUTOFF<br><input type="checkbox"/> WILDCAT WELL DETERMINATION<br><br><input type="checkbox"/> ALTER CASING<br><input type="checkbox"/> CHANGE TUBING<br><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS<br><input type="checkbox"/> FRACTURE TREAT<br><input type="checkbox"/> PLUG AND ABANDON<br><input type="checkbox"/> RECLAMATION OF WELL SITE<br><input type="checkbox"/> SIDETRACK TO REPAIR WELL<br><input type="checkbox"/> VENT OR FLARE<br><input type="checkbox"/> SI TA STATUS EXTENSION<br><input type="checkbox"/> OTHER<br><br><input type="checkbox"/> CASING REPAIR<br><input type="checkbox"/> CHANGE WELL NAME<br><input type="checkbox"/> CONVERT WELL TYPE<br><input type="checkbox"/> NEW CONSTRUCTION<br><input type="checkbox"/> PLUG BACK<br><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION<br><input type="checkbox"/> TEMPORARY ABANDON<br><input type="checkbox"/> WATER DISPOSAL<br><input checked="" type="checkbox"/> APD EXTENSION<br>OTHER: <input type="text"/> |                          |
| 12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.<br>Newfield proposes to extend the Application for Permit to Drill this well.   |  |  |                          |
|  |  | Approved by the<br>Utah Division of<br>Oil, Gas and Mining<br><br>Date: February 18, 2014<br>By:    |                          |
| NAME (PLEASE PRINT)<br>Mandie Crozier  |  | PHONE NUMBER<br>435 646-4825   | TITLE<br>Regulatory Tech |
| SIGNATURE<br>N/A   |  | DATE<br>2/13/2014  |                          |



**The Utah Division of Oil, Gas, and Mining**

- State of Utah
- Department of Natural Resources

**Electronic Permitting System - Sundry Notices**

**Request for Permit Extension Validation Well Number 43047521900000**

**API:** 43047521900000

**Well Name:** GMBU 2-36-8-17H

**Location:** 0649 FNL 1667 FEL QTR NWNE SEC 36 TWNP 080S RNG 170E MER S

**Company Permit Issued to:** NEWFIELD PRODUCTION COMPANY

**Date Original Permit Issued:** 2/29/2012

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☒ Yes ☐ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

**Signature:** Mandie Crozier

**Date:** 2/13/2014

**Title:** Regulatory Tech **Representing:** NEWFIELD PRODUCTION COMPANY



GARY R. HERBERT  
Governor

SPENCER J. COX  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

March 5, 2015

Newfield Production Company  
Rt 3 Box 3630  
Myton, UT 84052

Re: APD Rescinded – GMBU 2-36-8-17H, Sec. 36, T. 8S, R. 17E  
Uintah County, Utah API No. 43-047-52190

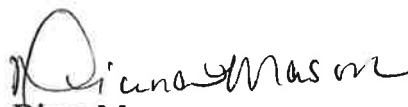
Ladies and Gentlemen:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on February 29, 2012. On February 19, 2013 and February 18, 2014 the Division granted a one-year APD extension. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective March 5, 2015.

A new APD must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

  
Diana Mason  
Environmental Scientist

cc: Well File  
SITLA, Ed Bonner

